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Infrastructure, environment, buildings

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ENVIRONMENT

Mr. James Hou
United States Environmental Protection Agency - Region 4
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-8960

Subject:
Revised Source Reduction Work Plan
Chevron Chemical Superfund Site
Orlando, Florida

Date:
January 31, 2010

Contact:
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Our ref:
B0046727.0000.00006

Dear Mr. Hou:

On behalf of Chevron Environmental Management Company (Chevron EMC), ARCADIS U.S., Inc. (ARCADIS) is submitting a *Revised Source Reduction Work Plan* (Revised Work Plan) for the Chevron Chemical Superfund Site (the Site) located at 3100 North Orange Blossom Trail in Orlando, Florida. The original work plan was submitted on April 9, 2010. This work plan was revised to address comments provided by the United States Environmental Protection Agency (USEPA) in a memorandum dated October 14, 2010 (attached).

The USEPA's six comments and Chevron EMC's responses are provided below:

Comment 1:

Table 1 needs to cite references for the values used in the analysis of the dilution factor and the reference that includes actual test results for the site-specific partitioning coefficient values. I was able to find documentation of many of the dilution factor values with difficulty by online searching of EPA records many years old. The reader of the work plan should be able to readily access the documents containing site-specific data used to estimate soil cleanup goals.

Response to Comment 1:

An updated Table 1 with references is attached in the Revised Work Plan.

Comment 2:

In Table 1, the work plan needs to cite a reference for the "Florida Drinking Water Guideline" for the BHCs. Florida has developed groundwater cleanup target levels (GCTLs) for each of the BHCs and has an expectation that these concentrations are the benchmark for defining the acceptable groundwater concentrations at a point of compliance. The GCTLs differ from the "Florida Drinking Water Guideline" concentrations shown on Table 1. If not entirely an error, I presume that the "Florida Drinking Water Guideline" values cited in the report are some pre-GCTL values that no longer have relevance to the analysis of soil cleanup goals for groundwater protection.

Response to Comment 2:

An updated Table 1 with references is attached in the Revised Work Plan.

Comment 3:

Table 2 needs to identify the original report that documents the geotechnical testing results on the soils.

Response to Comment 3:

The laboratory reports with the geotechnical testing results are attached in Appendix E of the Revised Work Plan.

Comment 4:

Tables 3-6 show several samples with SPLP leachate BHC concentrations in samples where BHCs were undetected in the soil samples. One option for analyzing these results would be to assume a soil concentration (conservatively, half the reported detection limit) and calculate a Kd for those data, using the same procedure as that in the tables. I am not necessarily advocating this approach. However, it is possible to include evaluation of these results. This additional data analysis would add to the data set being considered and might give a better understanding of the partitioning conditions where there are very low soil concentrations. Therefore, the work

plan needs to either include that analysis or indicate that although it is a possible way to evaluate additional SPLP results, it was not used because of a valid technical reason, which should be explained.

Response to Comment 4:

A sensitivity analysis was conducted to assess the potential effects of including data in the calculation of site-specific K_d values for the following two scenarios:

- Samples with soil BHC concentrations that were below laboratory detection limits but had detected SPLP leachate BHC concentrations, and
- Samples with SPLP leachate BHC concentrations that were below laboratory detection limits but had detected SPLP leachate BHC concentrations.

For the sensitivity analysis, sample BHC concentrations below the laboratory detection limits were replaced with either the value of the laboratory detection limit (DL) or ½ the value of the laboratory detection limit (0.5 DL). The results of this sensitivity analyses are summarized in the following table:

Results of Sensitivity Analysis for Estimating Site-Specific K_d Values for BHC Isomers

Constituent	K_d Value Used (L/kg)	K_d Value for DL (L/kg)	K_d Value for 0.5 DL (L/kg)	Lowest K_d Value (L/kg)	Soil Target Concentration based on Lowest K_d Value (mg/kg)
α-BHC	140.7	175.1	105.9	105.9	0.09
β-BHC	45.5	42.4	23.0	23.0	0.039
δ-BHC	38.8	117.8	72.6	38.8	No Change
γ-BHC	53	235.5	1757.6	53	No Change

As shown in Table 7 of the Work Plan, estimated final area weighted average (AWA) concentrations of α-BHC and β-BHC remaining in soil after completion of the Source Reduction Work Plan elements are below the soil target concentrations based on the lowest K_d Value estimated from the sensitivity analysis. Based on these results, the K_d values used to estimate target soil concentrations are conservative.

Comment 5:

I am familiar with the approach used to evaluate areas of soil that are assumed to require excavation. The procedure is acceptable, and the areas selected for excavation appear to be a conservative estimate of how to meet the intent of the soil target cleanup levels for groundwater protection (subject to use of the correct groundwater cleanup values; see comment 2 above). As a precautionary measure, I have evaluated all data points outside of the proposed soil removal areas to determine if there is a location or area where there is significant breakthrough of BHC contamination into the deeper soils that would not be addressed by the area weighted concentration approach. Such a condition would suggest a location with less effective attenuation (contaminant sorption) than pertains in areas where high soil contaminant concentrations are apparently "held up" in shallower soil layers. Based on this evaluation, I have no substantive concerns about the area weighted average process missing some soil contamination that is likely to be an ongoing threat to groundwater quality.

Response to Comment 5:

Comment Noted

Comment 6:

Appendix B needs to somehow indicate that the shaded sample result (e.g. SB-98, β BHC 0-2 feet deep) represents the sample defining the cutoff point for samples requiring excavation under the proposed approach for defining polygons requiring excavation.

Response to Comment 6:

A Revised Appendix B with an explanation of shaded cells is attached in the Revised Work Plan.

In addition, ARCADIS has added Sections 4.2.1 and 4.4.1 in the *Revised Work Plan*. These sections discuss the delineation and characterization of elevated chlordane concentrations (6,100 mg/kg) detected in soil sample SB-137. A total of 26 soil samples were collected from 19 borings and were analyzed for chlorinated pesticides. Analytical results for these samples are presented in Tables 8 and 9. Based on these results, approximately two cubic yards of soil have been determined to be characteristically hazardous and will be removed as proposed in the *Revised Work Plan*.

Upon approval of the *Revised Work Plan,* Chevron EMC would like to schedule an onsite meeting to discuss any outstanding issues and the implementation schedule. Please contact Mark Stella of Chevron EMC at 713.432.2643 or Allen Just of ARCADIS at 714. 730.9052 Ext. 38 if you should have any questions concerning the Site.

Sincerely,

ARCADIS U.S., Inc.

Allen C. Just, P.E.
Principal Engineer

Copies:
Mark Stella, Chevron EMC
Susan Tobin, TASK Environmental
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U.S. EPA REGION IV

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Revised Source Reduction Work Plan

Chevron Chemical Superfund Site
Orlando, Florida

January 2010

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ARCADIS

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Revised Source Reduction Work Plan

Chevron Chemical
Superfund Site
Orlando, Florida

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January 31, 2010

Figures

Appendices

1. Introduction

On behalf of Chevron Environmental Management Company (Chevron EMC), ARCADIS U.S., Inc., (ARCADIS) has developed this work plan to conduct source reduction activities at the Chevron Chemical Superfund Site (the Site) located at 3100 North Orange Blossom Trail in Orlando, Orange County, Florida (Figures 1 and 2). This *Source Reduction Work Plan* (Work Plan) was prepared in response to a request from the United States Environmental Protection Agency (USEPA). Due to historic operations at the Site, the soil and groundwater were impacted by chlorinated pesticides. These pesticides include hexachlorocyclohexane (BHC; α-BHC, β-BHC, δ-BHC, and γ-BHC, collectively referred to herein as BHC), toxaphene, and chlordane. Based on the groundwater monitoring data collected at the Site, the BHCs appear to be leaching from unsaturated soil to groundwater. Source reduction in the form of soil excavation is expected to mitigate this transport pathway and thereby sufficiently reduce the loading of BHC from soil to groundwater to meet remedial objectives for groundwater. The site-specific groundwater cleanup levels for α-, β-, and γ-BHC (Lindane) were established by the USEPA and presented in the *Record of Decision* (ROD) dated May 22, 1996. The groundwater cleanup levels for these BHC isomers are 0.05, 0.1, and 0.2 µg/L, respectively. Since the ROD did not include a groundwater cleanup level for δ-BHC, a groundwater cleanup goal of 2.1 µg/L was selected based on the Florida Administrative Code (FAC) Chapter 62.777 Groundwater Cleanup Target Levels (GCTLs).

Leaching of toxaphene and chlordane to groundwater is not considered to be a major transport pathway for these constituents. However, concentrations of chlordane in some locations exceed the target soil concentrations of 50 mg/kg and 100 mg/kg for chlordane in the 0 to 1 and 1 to 10 feet below ground surface (ft bgs) depth intervals, respectively, as set forth in the ROD. In addition, elevated toxaphene concentrations were detected during recent site assessment activities. The proposed source reduction activities will include the areas with elevated chlordane and toxaphene concentrations.

This Work Plan presents the method used to derive site-specific target soil concentrations (TSC) (i.e., numeric cleanup goals) for BHC in soil that are protective of groundwater from the leaching of BHC from the soil to groundwater pathway. In addition, this Work Plan presents an area-weighted average (AWA) approach for utilizing the TSCs for BHC isomers in a source reduction (excavation) program. For chlordane, all soil with chlordane concentrations above the levels set forth in the ROD will be included in the source reduction program. The AWA approach provides a

method for estimating total mass of constituents of concern (COCs) in soil, estimated mass removed, estimated mass remaining, and average COC concentrations that will remain in soil after source reduction activities have been completed.

As described in the following sections, the proposed source reduction activities includes the removal of approximately 3,153 cubic yards (approximately 4,800 tons) of soil impacted with BHC, toxaphene, and chlordane resulting in removal of 94% of the total BHC mass, 91% of the total toxaphene mass, and 91% of the total chlordane mass estimated to be present in soil in the 0 to 7 ft bgs depth interval. After completion of source reduction activities, final AWA soil BHC concentrations in the 0 to 2, 2 to 5, and 5 to 7 ft bgs depth intervals will be below the respective TSCs for each BHC isomer. This source reduction plan is expected to remove the remaining source material that is having an adverse impact on the concentrations of BHCs in site groundwater and will be protective of human health and the environment. Groundwater monitoring will be continued at the Site to evaluate the efficacy of the source reduction activities.

2. Target Soil Concentrations

Target soil concentrations for BHC isomers in site soil were derived following methods described in the USEPA soil screening guidance and associated technical background documents (USEPA, 1996). These methods included the use of site-specific leaching measurements for calculating target soil concentrations that are necessary to achieve a target soil leachate concentration that is protective of groundwater. The derivation of these target soil and soil leachate concentrations followed the conservative assumption that a constituent in vadose-zone soil leaches to groundwater and is then diluted in groundwater.

The following steps were performed to derive site-specific TSCs for BHC isomers in site soil:

1) Estimate a site-specific dilution factor for soil leachate as it enters groundwater.

2) Calculate the target soil leachate concentration for BHC that would be protective of groundwater by achieving specific groundwater remedial goals.

3) Calculate the TSC for BHC in soils based on the target soil leachate concentration.

The following sections describe how these steps were applied to determine site-specific TSCs for BHC isomers in soil.

2.1 Estimating an Appropriate Dilution Factor for the Soil Leaching to Groundwater Pathway

Precipitation and other sources of recharge water infiltrating through unsaturated soil can leach COCs from impacted soil. The dilution factor (DF) describes the amount of dilution that occurs when COCs in soil leachate mix with groundwater (USEPA, 1996). The DF was calculated by dividing the estimated annual volume of groundwater that passes beneath the impacted area by the estimated annual volume of recharge moving through the unsaturated zone. Derivation of a site-specific DF required an understanding of the following site-specific parameters:

- Aquifer hydraulic gradient, i,

- Aquifer hydraulic conductivity, K,
- Aquifer porosity, η,
- Aquifer thickness, d_a,
- Aquifer mixing zone depth, d,
- Source length parallel to groundwater flow, L, and
- Recharge (infiltration) rate, I.

Site-specific values for these parameters are provided in Tables 1 and 2. A site-specific DF of was calculated following USEPA soil screening guidance methods for the migration to groundwater pathway (USEPA, 1996):

$$DF = 1 + (K \times i \times d) / (I \times L) \qquad \text{[Eq. 1]}$$

Where the aquifer mixing zone depth is estimated from (USEPA, 1996):

$$d = (0.0112 \times L^2)^{0.5} + d_a \{1 - \exp[(-L \times I)/(K \times I \times d_a)]\} \qquad \text{[Eq. 2]}$$

A site-specific DF of 17.0 was estimated using site-specific input values (Table 1). This DF value is less than the USEPA default DF of 20 (UESPA, 1996) and is considered to be a reasonable value to use for this site.

2.2 Estimating a Target Soil Leachate Concentration

To determine the target soil leachate concentration that is necessary to achieve remedial goals for groundwater, the groundwater criteria for BHC were multiplied by the site-specific DF to yield target soil leachate concentrations for BHC in soil leachate. Using the groundwater criteria described above, and the site-specific DF of 17, the target soil leachate concentrations for α-, β-, δ-, and γ-BHC are 0.85, 1.70, 35.7, and 3.40 μg/L, respectively. To mitigate the transport of BHC from soil to groundwater, the BHC concentrations in leachate from vadose zone soil need to be equal to or less than the target soil leachate concentrations to be protective and meet remedial goals for groundwater.

2.3 Calculation of the Target Soil Concentration for Subsurface Soil

To estimate an appropriate target soil concentration, the target BHC concentrations for soil leachate were combined with site-specific synthetic precipitation leaching procedure (SPLP) data and site-specific soil properties data. Results from the SPLP analysis were used to derive site-specific partition coefficients, or "K_d" values, for isomers of BHC in unsaturated soil. A partition coefficient is the ratio of the sorbed-phase concentration to the dissolved-phase concentration at equilibrium and provides a measure of the relative ease at which contaminants will move between the sorbed and dissolved phases. Under field conditions, partition coefficients can vary significantly between sites due to differences in soil properties, the mixture of contaminants present, and even the age of the release. Therefore, development of site-specific K_d values provides a greater level of confidence in the calculated soil target cleanup concentrations than would use of published values.

Twenty soil samples were collected from various locations and depths within the source area and submitted for SPLP analysis. Based on existing soil BHC concentration data, the sampling strategy was devised to provide a representative range of BHC soil concentrations and soil types to evaluate potential effects of soil BHC concentration and soil type on BHC leaching. Site-specific SPLP data were used to estimate site-specific K_d values for each of the BHC isomers using the following equations (Hawaii Department of Health (HDOH) 2007).

$$K_d\ (L/kg) = C_{sorbed}\ (\mu g/kg) / C_{solution}\ (\mu g/L) \qquad [Eq.\ 3]$$

Where:

C_{sorbed} is the concentration of BHC sorbed to soil after the SPLP test; and

$C_{solution}$ is the resulting concentration of BHC in the SPLP solution.

The sorbed concentration of BHC is calculated as follows:

$$C_{sorbed}\ (\mu g/kg) = Mass_{sorbed}\ (\mu g) / Sample\ Mass\ (kg) \qquad (Eq.\ 4)$$

Where:

$Mass_{sorbed}$ is the mass of BHC still sorbed to soil following the SPLP test.

The mass of the soil sample used in the SPLP test was 100 grams or 0.1 kg (USEPA 1994). The mass of BHC sorbed to the soil was calculated by subtracting the mass of BHC that went into the SPLP test solution from the initial, total mass of BHC in the soil sample:

$$Mass_{sorbed}\ (\mu g) = Mass_{total}\ (\mu g) - Mass_{solution}\ (\mu g) \qquad \text{(Eq. 5)}$$

Where:

$Mass_{total}$ is the original, total mass of BHC in the soil sample; and

$Mass_{solution}$ is the mass of BHC in the SPLP test solution.

The total mass of BHC in the soil sample is calculated as:

$$Mass_{total}\ (\mu g) = C_{total}\ (\mu g/kg) \times \text{Sample Mass (kg)} \qquad \text{(Eq. 6)}$$

Where:

C_{total} is the reported total concentration of BHC in the soil sample that was used in the SPLP test (tested on a split sample).

The mass of BHC in the SPLP test solution is calculated as:

$$Mass_{solution}\ (\mu g) = C_{solution}\ (\mu g/L) \times \text{Solution Volume (L)} \qquad \text{(Eq. 7)}$$

The volume of solution used in the SPLP tests was two liters (USEPA 1994).

Estimated sample-specific, average, and geometric mean K_d values are provided in Tables 3 through 6. Graphs of total soil BHC concentration versus SPLP leachate BHC concentrations are provided in Figures 3 through 6. As shown, geometric mean K_d values were 140.7, 45.5, 38.8, and 53.0 L/kg for the α-, β-, δ-, and γ-BHC isomers, respectively.

Geometric mean K_d values were used for estimating target soil concentration for unsaturated soil as follows:

$$TSC = TSL \times [K_d + (\theta_w + (\theta_a * H')/ \rho_b)] \qquad \text{(Eq. 1)}$$

Where:

TSC is the target soil concentration to be protective of groundwater;

TSL is the target soil leachate concentration to be protective of groundwater;

θ_w is the water-filled porosity,

θ_a is the air-filled porosity,

H' is the dimensionless Henry's Law coefficient, and

ρ_b is the soil bulk density in kilograms per liter (kg/L).

The above approach was used to derive site-specific target concentrations for α-, β-, δ-, and γ-BHC in site soil of 0.120, 0.077, 1.386, and 0.180 mg/kg, respectively.

3. Area-Weighted Average Remediation Approach

The calculated target soil concentrations for BHC were used in an AWA approach to devise an appropriate remedy that will be protective of groundwater. The AWA approach prioritizes which actions and locations would efficiently generate the greatest BHC mass removal for the smallest soil volume. The AWA approach is a technically sound, recognized scientific method used to prioritize and establish the extent of source remediation, and precedence for the approach has been set at several USEPA, RCRA, and State-led sites. The AWA approach was also used to devise an appropriate remedy that will meet the ROD-based TSCs for chlordane and the RSBL for toxaphene.

To organize the data and provide a spatial context for soil delineation, remedial design, and construction implementation, an overall "remediation unit" was created based on an area of defined soil impacts at the Site (Appendix A). This remediation unit is defined by the Chevron property boundary and by locations with BHC concentrations below the laboratory detection limit. Using soil characterization data developed during multiple site investigations conducted in 2003, 2007, and 2008, AWA soil concentrations within the remediation unit were calculated by first developing Thiessen polygons that are considered "zones of influence" around individual soil sampling locations. The Thiessen polygons were created by establishing lines that are equidistant from adjacent soil sampling locations, with the number of sides of the polygon being a function of the number of neighboring samples present. Thiessen polygons for BHC, toxaphene, and chlordane concentrations were developed for three soil depth intervals; 0 to 2 ft bgs, 2 to 5 ft bgs, and 5 to 7 ft bgs (Appendix A). Constituent-specific remediation units were developed for each depth interval based on the extent of detected concentrations. For example, the remediation unit for α-BHC in the 0 to 2 ft bgs depth interval is defined by the extent of detected concentrations of α-BHC in this depth interval bounded by polygons with α-BHC concentrations below detection. For chlordane, remediation units are defined by the extent of detection above the respective ROD value for each depth interval, surrounded by polygons with concentrations below the respective ROD value.

The AWA concentration for each depth interval unit was calculated as follows:

1) Assign the soil concentration of the sample in the center of each Thiessen polygon to the entire area of the polygon. If multiple soil concentrations are available for a single sampling location (i.e., multiple samples were collected from the upper two feet), the maximum BHC isomer concentration was

assigned to the polygon. The detection limit was used as the soil concentration for non-detect sample locations. For BHC concentration below the laboratory detection but with elevated detection limits due to sample dilution (K qualified data), ½ the detection limit was used as the soil concentration for non-detect sample locations.

2) Assign a value to each remediation unit for the individual constituents that equates to the soil concentration in each polygon multiplied by its surface area. (The weighted polygons have the dimensions of square feet-milligrams per kilogram [ft^2-mg/kg]).

3) Sum the weighted polygons. Divide the sum of the weighted areas by the total surface area of all the polygons within the remediation unit for each constituent. The resulting quotient is the AWA concentration.

This AWA concentration calculation is a conservative estimate of the BHC distribution in the surface in the following ways:

1) Assigning the highest concentration of the central soil boring to every Theissen polygon over-estimates the mass, and this high bias is applied to every polygon. By using the maximum detected value at each location for AWA calculations, more mass is assigned to each polygon than if average concentrations at each location had been used. Using maximum concentrations results in a higher AWA concentration, which then potentially requires removal of additional polygons to achieve remedial goals.

2) Laterally, representing mass distribution with Theissen polygons is comparable to linearly interpolating between data points. Because concentrations in environmental media tend to decline exponentially with distance from the source data point rather than linearly, contouring linearly tends to overestimate the mass outside of high concentration areas. Kriging approaches use an exponential function for contouring concentrations between data points. The linear interpolation technique of the Theissen approach is more conservative, i.e. results in a greater volume for soil removal, than the exponential Kriging approach.

3.1 Application of the AWA Approach in Delineating Soil Removal Areas

Application of the AWA approach in delineating soil removal areas is conducted in the following manner. If the AWA soil BHC concentration for a particular soil depth interval is less than the TSC, then no further action is planned for that depth interval. If the AWA soil BHC concentration for a particular soil depth interval is greater than the TSC, then polygons with the highest concentrations or mass will be excavated until the AWA is at or below the TSC. In the case of β-BHC and δ-BHC, a total mass reduction of 90% was targeted, which resulted in planned removal of polygons beyond what was indicated based solely on the AWA approach. As described in more detail below, using this approach, approximately 94% of the total estimated BHC mass, 91% of the total estimated toxaphene mass, and 91% of the total estimated chlordane mass in soil in the 0 to 7 ft bgs depth interval will be excavated and transported off-site for disposal. Actual mass removed may vary slightly as this estimate assumes equal distribution of concentration, and therefore mass, throughout the polygons, and is calculated based on the maximum soil concentration for each sampling location and depth interval.

The procedure for identifying the polygons to be excavated for each BHC isomer is as follows:

1) Sort the weighted polygons in descending order of constituent mass in the polygon.

2) Replace the soil concentration of the highest weighted polygon with zero. This represents excavating the impacted soil from the polygon, and backfilling the polygon with clean fill.

3) Recalculate the AWA. If the AWA is still above the TSC for each constituent, repeat Steps 1 and 2 with additional polygons until the recalculated value is below the TSC for each constituent. The new AWA concentration reflects the fact that the total soil area exposed to rainfall and infiltration has not changed, but the mass available for transport to groundwater has been reduced through source removal.

4) Optimize polygon removal for all BHC isomers based on comparison of planned polygon removal for the individual BHC isomers. Although an individual polygon may rank high for an individual BHC isomer, substitution of polygons based on concentrations of other BHC isomers may be sufficient to meet overall remedial objectives for each isomer.

For chlordane, all polygons with chlordane concentrations greater than levels set forth in the ROD were included in the planned excavation.

Results of the AWA approach and proposed polygon excavation volumes are provided in Table 7. Detailed data sheets showing AWA calculations are provided in Appendix B. As shown in Table 7, removal of approximately 1,364 cubic yards of BHC-impacted soil from 55 polygons in the 0 to 2 ft bgs depth interval will result in removal of 98% of the BHC mass, 93% of the toxaphene mass, and 96% of the chlordane mass in the 0 to 2 ft bgs depth interval. Removal of approximately 1,314 cubic yards of BHC-impacted soil from 41 polygons in the 2 to 5 ft bgs depth interval will result in removal of 83% of the BHC mass, 82% of the toxaphene mass, and 75% of the chlordane mass in the 2 to 5 ft bgs depth interval. Removal of approximately 475 cubic yards of BHC-impacted soil from 24 polygons in the 5 to 7 ft bgs depth interval will result in removal of 71% of the BHC mass, 63% of the toxaphene mass, and 29% of the chlordane mass in the 5 to 7 ft bgs depth interval.

Overall, removal of approximately 3,153 cubic yards of BHC-impacted soil from 120 polygons in the 0 to 2, 2 to 5, and 5 to 7 ft bgs depth intervals will result in removal of 94% of the total BHC mass, 91% of the total toxaphene mass, and 91% of the total chlordane mass in the 0 to 7 ft bgs depth interval. Final AWA soil BHC concentrations in the 0 to 2, 2 to 5, and 5 to 7 ft bgs depth intervals will be below the respective TSCs for each BHC isomer. This excavation plan is expected to significantly reduce the remaining source material which is having an adverse impact on the dissolved-phase BHC concentrations beneath the Site, and will be protective of human health and the environment.

4. Source Reduction Plan

This section provides a work plan for completing the proposed source reduction activities at the Site. The scope of work includes the excavation, proper management, transportation and disposal of approximately 3,153 cubic yards of pesticide-impacted soils.

4.1 Pre-Mobilization Activities

Prior to initiating the source reduction activities, ARCADIS and its subcontractors will complete the following tasks:

- Update the existing Environmental Health and Safety Plan (E-HASP). The E-HASP will include the appropriate Job Loss Analysis (JLAs) to address the proposed remedial excavation activities.
- Identification and sampling of potential backfill materials.
- Proper abandonment of groundwater monitoring wells MW-24S, MW-24D, MW-36S, MW-36D, MW-37S, MW-37D, MW-50S, and MW-50D, which are located within or adjacent to the proposed excavation areas. Piezometers located around the MW-10 well cluster may also be abandoned. The abandonment activities will be performed by a Florida-licensed water well contractor.
- Inspection of large trees near the excavation areas; development of a tree management plan to preserve large oak trees and remove non-native trees.

4.2 Waste Characterization

4.2.1 Nonhazardous Soil

On December 23, 2009, one composite soil sample was prepared with representative soil sample aliquots collected from each area of contaminated soil and depth to be excavated (with the exception of the polygon around SB-137). The sample was submitted to SunLabs, Inc., in Tampa, Florida for chemical analysis. The sample was analyzed for volatile organic compounds (VOCs), semi-VOCs, metals, pesticides, and herbicides following toxicity characteristic leaching procedure (TCLP) sample preparation. In addition, the sample was analyzed for reactivity and corrosivity.

The analytical results and waste profile were submitted to the Waste Management Facility in Okeechobee, Florida for review and acceptance. Based on the composite sample results, the soil to be excavated from the site (except as described below) is not a characteristic hazardous waste. The approved waste profile (#105183FL) and laboratory report is included as Appendix D.

4.2.2 Hazardous Soil

Based on the elevated chlordane concentrations (6,100 mg/kg) detected in the original SB-137 sample location (see Table 8), a composite soil sample (CO-SO-COMP-1) was collected from this area between 1 to 2 feet bgs and analyzed for chlorinated pesticides following TCLP sample preparation. The leachable chlordane concentration exceeded the 40 CFR Part 261.24 regulatory level of 0.03 milligrams per liter (mg/l). To further delineate the chlordane impacts at sample location SB-137, a total of 26 soil samples were collected from 19 borings and analyzed for chlorinated pesticides. Analytical results for these samples are presented in Table 8. Based on the total chlorinated pesticide concentrations, five of the samples were selected for TCLP extraction and analysis for chlorinated pesticides. The TCLP results are summarized in Table 9. None of the additional TCLP analyses indicated leachable chlorinated pesticides exceeding their respective regulatory levels.

The analytical results for the composite soil sample collected from the SB-137 area on April 8, 2010 and a completed waste profile form were submitted to Veolia Environmental Services in Port Arthur, Texas for review and waste acceptance. Based on the composite sample results, the soil, when excavated, will be a hazardous waste by characteristic of toxicity (RCRA waste code D020). The approved waste profile and laboratory report is included as Appendix D.

4.3 Mobilization/Site Preparation

The Site is currently a vacant grass lot. In order to facilitate efficient load out and backfill operations, temporary access roads will need to be constructed at the Site for tractor trailers. Temporary access roads and a gravel parking area (for the short term onsite staging of tractor trailers) will reduce the impacts that wet conditions may have on the Site during the excavation activities, minimize the potential of tracking out soil on public roads, and allow tractor trailers to be positioned at the Site to facilitate safe and efficient loading and unloading (refer to Figure 2). The access road will consist of a 6-inch to 8-inch thick layer of aggregate placed on top of a layer of geofabric. The geofabric will provide a better surface on which to construct the access road. The

onsite traffic would be directed in a one way loop (counter clock-wise flow direction) to minimize backing and potential traffic hazards at the Site.

While not anticipated to be encountered, a thorough assessment of potential underground utilities will be performed including a utility one-call, site inspection, and the completion of a private utility locate survey.

Invasive species trees and small trees (trunk diameter at eye level of 6 inches or less) that encroach on the excavation areas will be removed. The trees to be removed include an *Enterolobium cyclocarpum* (ear tree) that was damaged by high winds, and a small maple tree that was also damaged by high winds. A Florida arborist will inspect the trees relative to the excavation areas and determine which others trees should be removed. In order to preserve the two large oak trees at the Site, a Florida Arborist will establish work zones around the oak trees. The purpose of which is to preserve the root structure and the trees.

Several drums containing soil cuttings from previous investigations are staged in areas to be excavated. During the excavation process, these drums of cuttings will be emptied into stockpiled soil, and will be loaded out with the soil for disposal. The empty drums will be crushed and transported to the Waste Management facility located in Okeechobee, Florida for disposal.

The purge water treatment system is in close proximity to the excavation and relocation of the system may be necessary. Granular activated carbon (GAC) drums will be removed from the storage shed, and emptied into the soil stockpile for loading, transportation and disposal. The GAC drums will be crushed and transported to the Waste Management facility located in Okeechobee, Florida for disposal. The water treatment tanks will be removed and preserved for future use. The water treatment system shed will be moved or disposed of, depending on its condition.

Monitor wells to remain on-site near work or transportation areas will be flagged with 10-foot polyvinyl chloride (PVC) poles that have been painted bright orange and marked with fluorescent tape. Barricades will also be placed around the monitor wells. Monitor wells that are damaged during the source reduction activities will be abandoned by a licensed Florida water well contractor, and replaced, if needed.

4.4 Soil Excavation/Removal

The proposed excavation limits are polygon-shaped and vary in depth. On a daily basis, the areas to be excavated will be delineated using a Trimble XPRO global positioning system (GPS) instrument or equivalent and staked. In order to maximize excavation controls and minimize project costs, each of the excavation areas will be completed in steps and will require planning and sequencing. The proposed sequence is to work from north to south across the Site. This sequencing approach should provide a cost effective approach to safely and efficiently complete the proposed excavation activities.

The weather conditions will be monitored on a daily basis. If rain is anticipated, clean fill material will be imported to construct stormwater diversion berms around the proposed work area in an effort to minimize the water entering the excavations. Clean fill will be stockpiled on site to minimize the amount of time needed to build the berms. The excavation activities will be stopped in the event of rain sufficient to result in significant run-off and/or lightning. All stockpiled soil will be covered with 6 mil plastic sheeting.

In the event that stormwater accumulates within an excavation, de-watering and on-site treatment of the stormwater may be required. A contingency plan for these activities is included in Appendix C. If the excavation is completed and the stormwater accumulation is limited, then crushed rock and geofabric can be used during the backfill process to eliminate the need for de-watering.

The onsite workers will be monitored for the potential negative effects of excessive heat and humidity. The workers will also be instructed on the symptoms of heat stress and heat stroke. An ample supply of drinking water will be available to the workers.

A dust monitoring and mitigation plan has been developed to protect the onsite workers and potential offsite receptors from exposure. If dust or odors become an issue, water and/or a vapor suppressant will be used to mitigate this potential hazard.

4.4.1 Hazardous Soil

Prior to conducting the main source reduction excavation activities, approximately two cubic yards of soil, which when excavated will be considered a hazardous waste by the characteristic of toxicity, will be removed from the vicinity of SB-137 using a backhoe. The lateral extent of the soil that will be a hazardous waste upon excavation is defined

by sample locations SB-137-M, SB-137-R, SB-137-Q, SB-137-F, SB-137-N, and SB-137-O; and the vertical extent is from 0 to 2 feet bgs (see Figure 7). All soil removed from this area will be placed directly into 55-gallon drums (approximately eight drums total) and staged in a secondary containment structure for transportation to the Veolia Environmental Services Port Arthur facility for treatment by incineration and land disposal of treated soil residue. All drum loading operations will take place over plastic sheeting to contain spills. The Veolia Port Arthur facility (US EPA ID: TXD000838896) is permitted to accept RCRA, TSCA and CERCLA waste for treatment by rotary kiln incineration.

4.4.2 Nonhazardous Soil

Following removal of soil that is hazardous waste by characteristic of toxicity, the remaining contaminated soil defined by the AWA approach described in Section 3.1 will be excavated. The lateral and vertical extents of the contaminated soil excavation are presented in Figures 8 through 10.

The soil will be excavated with a tracked excavator fitted with a sand blade, with the exception of soil in the immediate vicinity of large tree roots. Soil within the root zone of trees to remain on-site will be excavated by hand and with an air spade. Excavation work in the root zone will be performed under the supervision of a Master Arborist. Contaminated soil (approximately 3,151 cubic yards) will be excavated and loaded directly into dump trucks, where possible. Soil may be stockpiled temporarily within excavation areas (i.e., on top of contaminated soil to be excavated) or in a lined stockpile area, depending upon the sequencing of trucks. No more than ½ of a day's production quantity will be stockpiled at any time. Soil stockpiles will be covered at all times, unless active loading is underway.

4.5 Loading, Transportation, and Disposal

As stated above, the waste was pre-characterized in-situ and a waste profile was approved by the disposal facility. This will allow excavation to proceed unhindered and support the efficient loading of the material for transportation to the disposal facilities. The temporary stockpiling of soil may be required to expedite the loading process. The stockpiles will be placed on 6 mil plastic sheeting. The stockpile areas will be bermed with clean soil and/or hay bales covered by plastic sheeting to minimize the run-on of stormwater. After the trucks are loaded, the stockpile areas will be covered with tarps.

Transportation services will be integrated fully into the project team, including the completion of a site orientation and an abbreviated Loss Prevention System (LPS) training session prior to transporting materials for the project. The operation of tractor trailers on roads to and from the Site offers some of the greatest health and safety hazards associated with the project. A Journey Management Plan (JMP) will be prepared for the project. The JMP will identify potential hazards along the transportation route.

Prior to departing the Site, each truck will be brushed to remove loose dirt, inspected, and weighed using portable scales. Field personnel will ensure that all necessary manifest paperwork is completed (signed by Chevron EMC and transporter), and document at a minimum: license plate number, truck number, weight, and date/time. In addition, field personnel will document daily and cumulative volumes of soil excavated and transported off-site. A load summary will be obtained from the landfill daily to synchronize and reconcile landfill and site records.

To facilitate the safe access and egress of trucks from the Site, highly-visible, temporary highway signage and a radio-equipped flagger will be used to alert traffic to slow moving trucks entering and exiting the Site. Additionally, flagger responsibilities will be to facilitate the safe passage of pedestrians that may walk in front of the entrance to the Site. Procedural traffic controls, such as permitting only onsite truck staging , proper spacing and sequencing of trucking, and allowing only right turns in or out the Site (preventing trucks from crossing any lanes of traffic to enter or exit the Site), are other good means to enhance the traffic safety at the Site.

Excavated soil that is not hazardous waste will be taken to the Waste Management, Inc. (WMI) facility in Okeechobee, Florida for disposal. The WMI Okeechobee facility includes a RCRA Subtitle D, double-lined landfill with leachate collection. Leachate from the facility is either transported to a public wastewater treatment facility, or treated on-site by land-fill gas heat generated evaporation. The Okeechobee landfill is approved for disposal of CERCLA waste and other special wastes that are not hazardous waste as defined by 40 CFR Part 261.

4.6 Backfill/Topsoil Placement

Excavations will be backfilled with clean sandy soil in a timely manner. In order to increase efficiency, backfill will be dumped directly into or immediately adjacent to the excavation whenever possible. Any stockpiled backfill material will be covered with 6 mil plastic sheeting, segregated and clearly labeled in order to distinguish between

backfill and contaminated soil. Field personnel will document daily and cumulative volumes of backfilled material. In the event that an excavation remains open temporarily, orange safety fence will be installed around the excavation perimeter. A 6-inch thick layer of topsoil will be placed over the final backfill surface to facilitate re-vegetation of the excavated areas.

4.7 Final Grading and Seeding

Site restoration activities will include grading all disturbed areas at the Site and the placement of a grass seed/fertilizer mixture that is native to the area. Access roads may be left in place to facilitate future activities at the Site.

4.8 Field Documentation and Reporting

In addition to Health and Safety (H&S) related documentation, field personnel will also complete the following documentation on a daily basis:

- Personnel and Visitors Log documenting:
  - ARCADIS Personnel Onsite,
  - Subcontract Personnel Onsite,
  - Regulators or Clients Onsite;
- Equipment Safety Checklists for all equipment present and/or used by contractors;
- Daily Activities Log, documenting occurrences of significance;
- Meeting Summary forms, documenting meeting content and attendees;
- Waste tracking logs and transportation manifests;
- Instrument Calibration forms; and
- Daily Air Monitoring Log.

Upon completion of the source reduction activities, ARCADIS will prepare a summary report to document the field activities. This report will include site plans showing the

excavation limits and depths, daily H&S and field logs, and waste manifests and disposal certificates.

5. References

Hawaii Department of Health (HDOH), 2007. Use of laboratory batch tests to evaluate potential leaching of contaminants from soil (update to November 2006 technical presentation). 2007-223-RB. April 12.

United States Environmental Protection Agency (USEPA), 1996. *Soil Screening Guidance: User's Guide*. EPA/540/R-96/018.

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Tables

TABLE 1
INPUT PARAMETER VALUES FOR ESTIMATING TARGET SOIL CONCENTRATIONS FOR BHC ISOMERS IN SOIL CHEVRON ORLANDO SUPERFUND SITE ORLANDO, FLORIDA

Parameter	Unit	Value	Notes
Aquifer Hydraulic Conductivity (K)	ft/yr	18,980	Site specific value[1]
Mixing Zone Depth (d)	ft	11.3	Value estimated using Eq. 12 (USEPA, 1996)
Source Length Parallel to Ground Water (L)	ft	100	Site specific value[1]
Infiltration Rate (I)	ft/yr	0.75	Site specific value[1]
Hydraulic Gradient (i)	ft/ft	0.0056	Site specific value[1]
Aquifer Thickness (d_a)	ft	24	Site specific value[1]
Dilution Factor (DF)	unitless	17	Value estimated using Eq. 11 (USEPA, 1996)
Soil Bulk Density (ρb)	kg/L	1.45	Site specific value (see Table 2)
Water Filled Porosity ($Theta_w$)	unitless	0.16	Site specific value (see Table 2)
Air Filled Porosity ($Theta_a$)	unitless	0.29	Site specific value (see Table 2)
Henry's Law Constant (H')	unitless	0	Assumed no volatilization of BHC
Partition Coefficient Lindane	L/kg	53	Geometric mean of K_d values across all sampling locations
Partition Coefficient Alpha-BHC	L/kg	140.7	Geometric mean of K_d values across all sampling locations
Partition Coefficient Beta-BHC	L/kg	45.5	Geometric mean of K_d values across all sampling locations
Partition Coefficient Delta-BHC	L/kg	38.8	Geometric mean of K_d values across all sampling locations
Groundwater Criterion α-BHC	ug/L	0.05	Record of Decision[2]
Groundwater Criterion β-BHC	ug/L	0.1	Record of Decision[2]
Groundwater Criterion δ-BHC	ug/L	2.1	Groundwater Cleanup Target Level[3]
Groundwater Criterion γ-BHC	ug/L	0.2	Record of Decision[2]
Target Soil Leachate Concentration α-BHC	ug/L	0.85	Groundwater Criterion × DF
Target Soil Leachate Concentration β-BHC	ug/L	1.7	Groundwater Criterion × DF
Target Soil Leachate Concentration δ-BHC	ug/L	35.7	Groundwater Criterion × DF
Target Soil Leachate Concentration γ-BHC	ug/L	3.4	Groundwater Criterion × DF

Notes:

1. Data from TASK Environmental, Inc. and PTI Environmental Services, Inc., 1994. Remedial Investigation, Superfund Accelerated Cleanup Model, Chevron Chemical Company Site.
2. EPA Superfund Recortd of Decision: Chevron Chemical Co. (Ortho Division) EPA ID: FLD004064242, OU 01, Orlando, FL, May 22, 1996.
3. Groundwater and Surface Water Cleanup Target Levels, Table 1 Chapter 62-777, F.A.C. http://www.dep.state.fl.us/waste/quick_topics/rules/default.htm

TABLE 2
SITE-SPECIFIC SOIL GEOTECHNICAL DATA
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Location	Sieve Analysis[1]						Additonal Testing[1]				
	No. 4	No. 10	No. 40	No. 60	No. 100	No. 200	% Moisture	Permeability	Wet Density	Dry Density	Porosity
Units	(% Passing)						(%)	(ft/day)	(lbs/ ft^3)	(lbs/ ft^3)	(%)
SB-112 Zone 1 @ 0850	100	100	97.5	96.6	63.9	9.6	10	12.4	95.5	87.1	53.3
SB-112 Zone 2 @ 0852	100	100	99.3	96.9	62.2	5.4	5.2	8.6	99.3	94.2	60
SB-112 Zone 3 @ 0856	100	100	99.5	97.7	67	17.5	28.4	2.4	112.6	95.9	43.3
SB-111 Zone 1 @ 0930	97.4	93.1	86.6	82.9	56.1	14.1	14.3	6.3	83.1	72.8	43.3
SB-111 Zone 2 @ 0935	100	100	99.4	96.7	64	9	9.2	4.1	116.4	107.1	56
SB-111 Zone 3 @ 1000	100	100	99.3	96.8	57.1	9.8	25.2	3.1	111.3	101.4	46.7
SB-110 Zone 1 @ 1030	100	99.2	97.4	94.2	63.5	15.1	17.5	2.6	74.6	69.2	50
SB-110 Zone 2 @ 1038	100	100	99.4	96.8	63.6	9.9	7.4	3.7	112.6	102.4	45
SB-110 Zone 3 @ 1043	100	100	99.4	96.9	58.1	11.8	33.5	15.1	103.1	92.2	56.7

Notes:
1. See Appendix E for soil geotechnical data analysis laboratory report.

TABLE 3
PARTITION COEFFICIENT CALCULATIONS FOR α-BHC
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Station	Soil Description	Fraction of Organic Carbon (mg/kg)	Initial Soil α-BHC Conc (ug/kg)	Initial Total α-BHC Mass (ug)	SPLP Leachate α-BHC Conc. (ug/L)	SPLP Leachate α-BHC Mass (ug)	Percent Leached (%)	SPLP Sorbed α-BHC Mass (ug)	SPLP Sorbed Concentration (ug/kg)	Desorption Coefficient (Kd) (ug/ug)
78-3	dark to medium grey sand	0.0016	ND	ND	0.25	0.5	NA	NA	NA	--
78-6	dark brown / black sand, organic	0.0065	ND	ND	0.17	0.34	NA	NA	NA	--
78-10	tan sand	0.00067	ND	ND	ND	ND	NA	NA	NA	--
79-3	medium brown sand, slightly silty	0.0032	ND	ND	ND	ND	NA	NA	NA	--
79-5	dark brown sand, very fine with few silts	0.0028	ND	ND	ND	ND	NA	NA	NA	--
80-4	*medium grey sand*	0.0015	ND	ND	0.09	0.18	NA	NA	NA	--
80-6	dark brown / black sand, silts	0.0059	ND	ND	0.51	1.02	NA	NA	NA	--
81-1	NA	0.0017	ND	ND	0.013	0.026	NA	NA	NA	--
82-2	dark brown sand with possible fill	0.0026	ND	ND	ND	ND	NA	NA	NA	--
83-4	dark grey sand, trace silts	0.012	2200	220	11	22	10.0%	198	1980	**180.0**
83-8	dark brown sand, silty	0.027	640	64	6.7	13.4	20.9%	50.6	506	**75.5**
83-10	dark brown sand, silty	0.0033	ND	ND	0.97	1.94	NA	NA	NA	--
84-3	Sand, medium grey, gravel	0.0022	ND	ND	ND	ND	NA	NA	NA	--
84-8	Sand, dark brown, fine, organics	0.0095	45	4.5	1.1	2.2	48.9%	2.3	23	**20.9**
84-12	Sand, light grey, with trace of clay < 25%	0.003	ND	ND	0.01	0.02	NA	NA	NA	--
85-3	Sand, gold, backfill	0.0015	ND	ND	0.27	0.54	NA	NA	NA	--
86-2	Sand, dark gray brown, fine; 25% silt	0.0015	80	8	0.35	0.7	8.8%	7.3	73	**208.6**
87-2	Sand, brown, fine; some tan	0.0013	94	9.4	0.099	0.198	2.1%	9.202	92.02	**929.5**
87-6	Sand, dark brown, organic	0.00039	ND	ND	0.034	0.068	NA	NA	NA	--
87-14	Sand, light gray, few silts	0.00015	ND	ND	ND	ND	NA	NA	NA	--
									Minimum	**20.9**
									Maximum	**929.5**
									Geomean	**140.7**
									Average	**282.9**

Soil Sample Mass (grams):	100
Solute Sample Mass (grams):	2000
Soil Mass to Solute Mass Ratio	1:20

Notes:
ug - micrograms
kg - kilograms
L - liters

TABLE 4
PARTITION COEFFICIENT CALCULATIONS FOR β-BHC
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Station	Soil Description	Fraction of Organic Carbon (mg/kg)	Initial Soil β-BHC Conc (ug/kg)	Initial Total β-BHC Mass (ug)	SPLP Leachate β-BHC Conc. (ug/L)	SPLP Leachate β-BHC Mass (ug)	Percent Leached (%)	SPLP Sorbed β-BHC Mass (ug)	SPLP Sorbed Concentration (ug/kg)	Desorption Coefficient (Kd) (ug/ug)
78-3	dark to medium grey sand	0.0016	ND	ND	ND	ND	NA	NA	NA	--
78-6	dark brown / black sand, organic	0.0065	ND	ND	ND	ND	NA	NA	NA	--
78-10	tan sand	0.00067	ND	ND	ND	ND	NA	NA	NA	--
79-3	medium brown sand, slightly silty	0.0032	ND	ND	ND	ND	NA	NA	NA	--
79-5	dark brown sand, very fine with few silts	0.0028	ND	ND	ND	ND	NA	NA	NA	--
80-4	medium grey sand	0.0015	ND	ND	ND	ND	NA	NA	NA	--
80-6	dark brown / black sand, silts	0.0059	200	20	2.3	4.6	23.0%	15.4	154	**67.0**
81-1	NA	0.0017	ND	ND	0.58	1.16	NA	NA	NA	--
82-2	dark brown sand with possible fill	0.0026	1100	110	4.4	8.8	8.0%	101.2	1012	**230.0**
83-4	dark grey sand, trace silts	0.012	ND	ND	2.1	4.2	NA	NA	NA	--
83-8	dark brown sand, silty	0.027	ND	ND	1.7	3.4	NA	NA	NA	--
83-10	dark brown sand, silty	0.0033	ND	ND	0.32	0.64	NA	NA	NA	--
84-3	Sand, medium grey, gravel	0.0022	ND	ND	ND	ND	NA	NA	NA	--
84-8	Sand, dark brown, fine, organics	0.0095	ND	ND	1.2	2.4	NA	NA	NA	--
84-12	Sand, light grey, with trace of clay < 25%	0.003	ND	ND	0.3	0.6	NA	NA	NA	--
85-3	Sand, gold, backfill	0.0015	66	6.6	2.4	4.8	72.7%	1.8	18	**7.5**
86-2	Sand, dark gray brown, fine; 25% silt	0.0015	1800	180	22	44	24.4%	136	1360	**61.8**
87-2	Sand, brown, fine; some tan	0.0013	660	66	4	8	12.1%	58	580	**145.0**
87-6	Sand, dark brown, organic	0.00039	120	12	4.2	8.4	70.0%	3.6	36	**8.6**
87-14	Sand, light gray, few silts	0.00015	5.6	0.56	0.28	0.56	100.0%	-1.11E-16	-1.11022E-15	**0.0**
									Minimum	**0.0**
									Maximum	**230.0**
									Geomean	**45.5**
									Average	**74.3**

Soil Sample Mass (grams):	100
Solute Sample Mass (grams):	2000
Soil Mass to Solute Mass Ratio	1:20

Notes:
ug - micrograms
kg - kilograms
L - liters

TABLE 5
PARTITION COEFFICIENT CALCULATIONS FOR δ-BHC
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Station	Soil Description	Fraction of Organic Carbon (mg/kg)	Initial Soil δ-BHC Conc (ug/kg)	Initial Total δ-BHC Mass (ug)	SPLP Leachate δ-BHC Conc. (ug/L)	SPLP Leachate δ-BHC Mass (ug)	Percent Leached (%)	SPLP Sorbed δ-BHC Mass (ug)	SPLP Sorbed Concentration (ug/kg)	Desorption Coefficient (Kd) (ug/ug)
78-3	dark to medium grey sand	0.0016	ND	ND	0.39	0.78	NA	NA	NA	--
78-6	dark brown / black sand, organic	0.0065	ND	ND	2.3	4.6	NA	NA	NA	--
78-10	tan sand	0.00067	ND	ND	ND	ND	NA	NA	NA	--
79-3	medium brown sand, slightly silty	0.0032	ND	ND	0.12	0.24	NA	NA	NA	--
79-5	dark brown sand, very fine with few silts	0.0028	ND	ND	ND	ND	NA	NA	NA	--
80-4	medium grey sand	0.0015	ND	ND	0.25	0.5	NA	NA	NA	--
80-6	dark brown / black sand, silts	0.0059	ND	ND	0.3	0.6	NA	NA	NA	--
81-1	NA	0.0017	ND	ND	ND	ND	NA	NA	NA	--
82-2	dark brown sand with possible fill	0.0026	ND	ND	ND	ND	NA	NA	NA	--
83-4	dark grey sand, trace silts	0.012	ND	ND	2.5	5	NA	NA	NA	--
83-8	dark brown sand, silty	0.027	480	48	ND	ND	NA	NA	NA	--
83-10	dark brown sand, silty	0.0033	51	5.1	2.4	4.8	94.1%	0.3	3	**1.3**
84-3	Sand, medium grey, gravel	0.0022	ND	ND	1.6	3.2	NA	NA	NA	--
84-8	Sand, dark brown, fine, organics	0.0095	ND	ND	6.5	13	NA	NA	NA	--
84-12	Sand, light grey, with trace of clay < 25%	0.003	ND	ND	ND	ND	NA	NA	NA	--
85-3	Sand, gold, backfill	0.0015	ND	ND	ND	ND	NA	NA	NA	--
86-2	Sand, dark gray brown, fine; 25% silt	0.0015	58	5.8	0.57	1.14	19.7%	4.66	46.6	**81.8**
87-2	Sand, brown, fine; some tan	0.0013	110	11	0.23	0.46	4.2%	10.54	105.4	**458.3**
87-6	Sand, dark brown, organic	0.00039	56	5.6	0.82	1.64	29.3%	3.96	39.6	**48.3**
87-14	Sand, light gray, few silts	0.00015	ND	ND	0.015	0.03	NA	NA	NA	--
									Minimum	**1.3**
									Maximum	**458.3**
									Geomean	**38.8**
									Average	**147.4**

Soil Sample Mass (grams):	100
Solute Sample Mass (grams):	2000
Soil Mass to Solute Mass Ratio	1:20

Notes:
ug - micrograms
kg - kilograms
L - liters

TABLE 6
PARTITION COEFFICIENT CALCULATIONS FOR γ-BHC
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Station	Soil Description	Fraction of Organic Carbon (mg/kg)	Initial Soil γ-BHC Conc (ug/kg)	Initial Total γ-BHC Mass (ug)	SPLP Leachate γ-BHC Conc. (ug/L)	SPLP Leachate γ-BHC Mass (ug)	Percent Leached (%)	SPLP Sorbed γ-BHC Mass (ug)	SPLP Sorbed Concentration (ug/kg)	Desorption Coefficient (Kd) (ug/ug)
78-3	dark to medium grey sand	0.0016	ND	ND	ND	ND	NA	NA	NA	--
78-6	dark brown / black sand, organic	0.0065	ND	ND	ND	ND	NA	NA	NA	--
78-10	tan sand	0.00067	ND	ND	ND	ND	NA	NA	NA	--
79-3	medium brown sand, slightly silty	0.0032	ND	ND	ND	ND	NA	NA	NA	--
79-5	dark brown sand, very fine with few silts	0.0028	ND	ND	ND	ND	NA	NA	NA	--
80-4	medium grey sand	0.0015	ND	ND	ND	ND	NA	NA	NA	--
80-6	dark brown / black sand, silts	0.0059	ND	ND	ND	ND	NA	NA	NA	--
81-1	NA	0.0017	ND	ND	ND	ND	NA	NA	NA	--
82-2	dark brown sand with possible fill	0.0026	ND	ND	ND	ND	NA	NA	NA	--
83-4	dark grey sand, trace silts	0.012	ND	ND	ND	ND	NA	NA	NA	--
83-8	dark brown sand, silty	0.027	270	27	3.7	7.4	27.4%	19.6	196	**53.0**
83-10	dark brown sand, silty	0.0033	ND	ND	0.2	0.4	NA	NA	NA	--
84-3	Sand, medium grey, gravel	0.0022	ND	ND	ND	ND	NA	NA	NA	--
84-8	Sand, dark brown, fine, organics	0.0095	ND	ND	ND	ND	NA	NA	NA	--
84-12	Sand, light grey, with trace of clay < 25%	0.003	ND	ND	ND	ND	NA	NA	NA	--
85-3	Sand, gold, backfill	0.0015	ND	ND	ND	ND	NA	NA	NA	--
86-2	Sand, dark gray brown, fine; 25% silt	0.0015	ND	ND	0.26	0.52	NA	NA	NA	--
87-2	Sand, brown, fine; some tan	0.0013	140	14	ND	ND	NA	NA	NA	--
87-6	Sand, dark brown, organic	0.00039	ND	ND	ND	ND	NA	NA	NA	--
87-14	Sand, light gray, few silts	0.00015	ND	ND	ND	ND	NA	NA	NA	--
									Minimum	**53.0**
									Maximum	**53.0**
									Geomean	**53.0**
									Average	**53.0**

Soil Sample Mass (grams):	100
Solute Sample Mass (grams):	2000
Soil Mass to Solute Mass Ratio	1:20

Notes:
ug - micrograms
kg - kilograms
L - liters

TABLE 7
POLYGONS REMOVAL VIA EXCAVATION
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

0-2 ft bgs Soil Depth Interval

0-2 ft bgs Soil Depth Interval[1]							
Polygons Planned for Removal	α-BHC Mass in Polygon (kg)	β-BHC Mass in Polygon (kg)	δ-BHC Mass in Polygon (kg)	γ-BHC Mass in Polygon (kg)	Toxaphene Mass in Polygon (kg)	Chlordane Mass in Polygon (kg)	Polygon Volume (cubic yards)
SB-105	0.002	0.080	0.006	0.017	0.050	0.523	34.3
SB-107	0.000	0.014	0.000	0.000	0.152	0.253	22.7
SB-108	0.107	0.258	0.002	0.001	0.226	1.163	29.0
SB-12	0.000	0.000	0.000	0.000	0.001	0.003	4.7
SB-132	0.007	0.033	0.009	0.004	1.144	0.114	39.5
SB-133	0.023	0.014	0.017	0.005	1.727	13.812	25.8
SB-134	0.003	0.103	0.008	0.004	1.054	0.267	12.0
SB-135	0.066	0.041	0.052	0.014	5.171	4.359	66.3
SB-137	–	0.016	–	0.008	2.072	210.810	31.0
SB-150	0.001	0.000	0.001	0.000	0.059	0.090	10.1
SB-151	0.070	0.190	0.002	0.001	34.192	0.008	11.4
SB-152	0.004	0.110	0.003	0.001	0.131	2.590	23.5
SB-153	0.145	0.060	0.035	0.001	0.205	1.466	13.2
SB-154	–	–	–	–	–	–	23.9
SB-16	0.000	0.000	0.000	0.000	0.011	0.005	23.9
SB-18	0.000	0.002	0.000	0.001	0.334	0.089	5.3
SB-186	0.001	0.000	0.002	0.001	–	0.019	9.6
SB-187	0.000	0.000	0.000	0.000	0.100	0.025	8.2
SB-188	–	0.000	–	–	0.003	0.001	10.5
SB-189	–	0.000	–	0.000	0.003	0.000	11.4
SB-191	0.000	0.076	0.001	0.000	0.003	0.001	9.1
SB-192	0.000	0.002	0.001	0.001	0.280	0.052	8.1
SB-193	0.000	0.002	0.000	0.001	0.028	0.002	9.4
SB-197	0.000	0.000	0.000	0.000	0.036	0.034	12.8
SB-199	–	0.000	0.000	–	0.004	0.000	12.1
SB-203	0.000	0.009	–	0.000	–	–	11.5
SB-204	0.000	0.006	0.000	0.000	0.009	–	3.3
SB-205	0.000	0.004	0.001	0.000	0.005	–	1.8
SB-212	–	0.000	–	–	0.042	0.008	22.1
SB-213	0.000	0.007	–	0.000	–	0.011	25.8
SB-214	0.000	0.029	0.000	0.000	–	–	21.5
SB-215	0.000	0.020	0.000	0.000	0.005	0.000	20.2
SB-216	0.017	1.085	0.004	0.035	56.012	3.015	31.4
SB-218	0.002	0.025		0.020	0.176	0.260	63.0
SB-219	0.001	0.029	0.004	0.000	0.008	0.004	21.6
SB-28	0.000	0.000	–	–	–	0.008	76.1
SB-29	–	–	–	–	–	–	60.0
SB-31	–	–	–	–	–	–	60.8
SB-33	0.001	0.002	0.002	0.002	0.008	0.013	29.2
SB-34	1.275	0.005	0.312	0.364	9.885	1.795	23.3
SB-35	0.550	0.433	0.002	0.001	0.217	46.644	15.0
SB-43	–	–	–	–	–	–	47.8
SB-44	–	–	–	–	–	–	50.5
SB-45	–	–	–	–	–	–	38.9
SB-47	0.001	–	0.001	–	–	0.59	66.5
SB-81	0.000	0.000	0.000	0.000	0.003	–	9.1
SB-82	0.001	0.027	0.001	0.000	0.065	0.442	22.3
SB-83	–	–	–	–	–	–	36.2
SB-86	0.001	0.014	0.000	0.000	0.010	0.007	7.1
SB-87	0.001	0.005	0.001	0.001	0.011	–	7.5
SB-89	0.001	0.008	0.001	0.000	7.023	1.685	15.8
SB-95	0.001	0.000	0.000	0.000	0.023	0.245	15.0
SB-96	0.013	0.102	0.001	0.000	0.063	0.554	43.6
SB-97	8.216	1.449	2.539	4.185	85.147	0.013	13.4
SB-98	0.121	0.020	0.024	0.007	2.628	16.574	36.3
Target Soil Concentration (mg/kg)	0.120	0.077	1.386	0.180	NA	50	Total Volume (cubic yards)
Final AWA Concentration (mg/kg)	0.017	0.024	0.028	0.009	2.5	1.4	
Total Mass (kg)	10.7	4.48	3.12	4.71	223.6	319.5	
Total Mass Removed (kg)	10.6	4.28	3.03	4.67	208.3	307.4	1364
% Total Mass Removed	99.5%	95.6%	97.3%	99.2%	93.2%	96.2%	

TABLE 7
POLYGONS REMOVAL VIA EXCAVATION
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

2-5 ft bgs Soil Depth Interval

2-5 ft bgs Soil Depth Interval[1]							
Polygons Planned for Removal	α-BHC Mass in Polygon (kg)	β-BHC Mass in Polygon (kg)	δ-BHC Mass in Polygon (kg)	γ-BHC Mass in Polygon (kg)	Toxaphene Mass in Polygon (kg)	Chlordane Mass in Polygon (kg)	Polygon Volume (cubic yards)
SB-105	0.000	0.001	0.000	0.000	0.018	0.003	50.1
SB-107	*0.001*	*0.000*	*0.000*	*0.000*	*7.190*	*3.860*	*34.1*
SB-12	0.001	0.003	0.001	0.000	0.119	0.007	7.6
SB-137	0.001	0.000	–	0.000	–	28.406	46.5
SB-150	0.540	0.168	0.120	0.228	0.168	0.841	10.8
SB-151	0.027	0.029	0.012	0.012	2.732	0.262	16.4
SB-152	0.006	0.026	0.005	0.001	3.053	0.599	35.2
SB-153	0.048	0.054	0.030	0.008	0.151	0.009	27.1
SB-154	0.265	0.371	0.318	0.001	–	9.016	23.9
SB-16	–	–	–	–	–	–	6.6
SB-186	0.007	0.003	0.004	0.008	–	0.022	14.4
SB-187	0.000	0.004	0.000	0.001	–	0.102	12.2
SB-188	0.002	0.000	0.005	0.038	–	0.084	15.7
SB-189	0.032	0.000	0.000	0.057	0.048	0.162	17.1
SB-191	0.000	0.018	0.000	0.000	0.005	–	14.8
SB-192	0.000	0.003	0.000	0.000	0.049	0.009	12.2
SB-193	0.000	0.001	0.000	0.000	0.004	–	14.2
SB-197	0.001	0.001	0.003	0.000	–	0.010	19.2
SB-199	0.001	0.000	0.003	0.000	0.008	0.007	18.2
SB-203	0.000	0.002	0.001	0.000	0.005	–	17.3
SB-204	0.000	0.023	0.000	0.000	0.008	0.001	18.9
SB-205	0.015	0.039	0.009	0.018	0.011	–	18.7
SB-212	0.000	0.000	0.088	0.000	3.473	0.017	24.0
SB-213	0.000	0.008	0.000	0.000	0.011	0.023	38.7
SB-214	–	0.008	0.001	0.000	0.009	–	32.6
SB-215	–	0.003	0.000	0.000	0.009	0.006	31.4
SB-216	0.000	0.035	0.002	0.001	0.068	0.007	47.1
SB-218	0.000	0.013	0.001	0.001	0.031	0.012	94.3
SB-219	*0.000*	*0.002*	*0.000*	*0.000*	*0.010*	–	34.9
SB-28	0.009	0.020	0.001	0.000	–	0.174	76.1
SB-29	0.001	0.001	0.001	0.107	–	0.920	60.0
SB-31	0.024	0.001	0.001	0.088	–	1.034	60.8
SB-33	0.001	0.001	0.036	0.054	–	0.249	43.9
SB-43	–	0.001	–	0.041	0.069	0.807	47.8
SB-44	–	–	0.001	0.129	–	0.735	50.5
SB-45	–	–	0.001	0.052	–	0.679	38.9
SB-47	–	–	0.056	0.148	–	0.577	66.5
SB-83	0.088	0.002	0.002	0.001	–	1.045	36.2
SB-95	0.333	0.140	0.086	0.000	–	1.613	9.7
SB-97	0.081	0.001	0.027	0.117	2.246	–	20.2
SB-98	0.055	0.055	0.033	0.001	–	1.312	49.2
Target Soil Concentration (mg/kg)	0.120	0.077	1.386	0.180	NA	100	**Total Volume (cubic yards)**
Final AWA Concentration (mg/kg)	0.025	0.024	0.036	0.058	0.94	2.1	
Total Mass (kg)	1.65	1.25	1.03	1.54	23.7	70.6	
Total Mass Removed (kg)	1.54	1.03	0.85	1.11	19.5	52.6	1314
% Total Mass Removed	93.4%	83.1%	82.2%	72.2%	82.4%	74.5%	

TABLE 7
POLYGONS REMOVAL VIA EXCAVATION
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

5-7 ft bgs Soil Depth Interval

5-7 ft bgs Soil Interval[1]							
	α-BHC Mass in Polygon (kg)	β-BHC Mass in Polygon (kg)	δ-BHC Mass in Polygon (kg)	γ-BHC Mass in Polygon (kg)	Toxaphene Mass in Polygon (kg)	Chlordane Mass in Polygon (kg)	Polygon Volume (cubic yards)
SB-105	0.004	0.008	0.010	0.004		0.02	33.4
SB-12	0.000	0.001	0.000	0.000	0.001	–	4.7
SB-150	0.021	0.011	0.009	0.258	0.064	0.08	11.0
SB-151	0.028	0.032	0.009	0.010	0.032	0.27	11.5
SB-154	0.001	0.005	0.002	0.000	0.088	0.14	16.3
SB-16	0.000	0.001	0.000	0.000	0.015	–	6.6
SB-186	0.005	0.008	0.021	0.008	–	0.02	9.6
SB-187	0.000	0.000	0.021	0.010	–	0.03	8.2
SB-188	0.001	0.000	0.002	0.011	–	0.03	10.5
SB-189	0.000	0.000	0.019	0.024	–	0.07	11.4
SB-197	0.003	0.005	0.006	0.000	–	0.02	15.2
SB-199	0.005	0.003	0.006	0.000	0.040	0.04	12.3
SB-204	–	0.001	0.000	0.000	0.019	–	8.5
SB-205	0.000	0.001	0.000	0.001	0.001	–	1.8
SB-212	0.001	0.000	0.090	0.000	5.015	–	16.0
SB-214	–	0.006	0.000	0.000	0.007	–	21.7
SB-215	–	0.004	0.000	0.001	0.007	0.00	20.9
SB-216	0.003	0.035	0.018	0.003	0.147	0.01	31.4
SB-218	0.001	0.014	0.003	0.003	0.020	–	61.7
SB-219	0.000	0.004	0.001	0.000	0.007	–	21.6
SB-28	0.001	0.001	0.001	0.019	–	0.16	50.8
SB-29	0.004	0.000	0.001	0.050	–	0.53	40.8
SB-83	0.023	0.000	0.017	0.010	–	0.14	32.6
SB-97	0.003	0.000	0.000	0.002	0.412	–	16.0
Target Soil Concentration (mg/kg)	0.120	0.077	1.386	0.180	NA	100	Total Volume (cubic yards)
Final AWA Concentration (mg/kg)	0.011	0.013	0.015	0.021	1.12	0.71	
Total Mass (kg)	0.15	0.25	0.34	0.55	9.30	5.33	
Total Mass Removed (kg)	0.11	0.14	0.24	0.42	5.87	1.92	475
% Total Mass Removed	73.2%	57.4%	70.5%	76.3%	63.2%	36.0%	

Summary - 0-7 ft bgs Soil Depth Interval

0-10 ft bgs Soil Interval[1,2]							Total Volume (cubic yards)
	α-BHC	β-BHC	δ-BHC	γ-BHC	Toxaphene	Chlordane	
Total Mass (kg)	12.49	5.97	4.49	6.80	256.58	395.45	
Total Mass Removed (kg)	12.29	5.48	4.12	6.20	233.68	361.88	3153
% Total Mass Removed	98.3%	91.4%	91.8%	91.2%	91.1%	91.5%	

Notes:

[1] Does not include isolated non-detect (ND) polygons. Isolated ND ploygons are defined as any ND polygon that did not have contact with a polygon that contained a detected concentration of any BHC isomer.

– - not included in calculation of constituent mass and area-weighted average concentration

ft bgs - feet below ground surface

BHC - hexachlorocyclohexane

kg - kilogram

mg - milligrams

NA - not applicable

TABLE 8
SUMMARY OF SOIL ANALYTICAL RESULTS DELINEATING THE HAZARDOUS SOIL AREA
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Location ID:	Depth (Feet)	Date Collected	Dieldrin mg/kg	p,p'-DDD mg/kg	p,p'-DDE mg/kg	p,p'-DDT mg/kg	Toxaphene mg/kg	a-BHC mg/kg	b-BHC mg/kg	d-BHC mg/kg	Lindane mg/kg	Total BHCs mg/kg	a-Chlordane mg/kg	g-Chlordane mg/kg	Total Chlordane mg/kg
SB-137	1	01/08/09	0.85 K	19 K	0.9 K	0.34 K	120 K	1.6 K	0.95 K	1.2 K	0.32 K	ND	**3,200**	**2,900**	**6,100**
SB-137	3	01/08/09	0.017 K	0.96 K	0.018 K	0.0068 K	2.4 K	0.031 K	0.019 K	0.023 K	0.0064 K	ND	**340**	**210**	**550**
SB-137	5	01/08/09	0.0017 U	0.0019 U	0.0018 U	0.00069 U	0.25 U	0.0031 U	0.0019 U	0.0024 U	0.00065 U	ND	**0.72**	**0.61**	**1.33**
SB-137-A	0 - 2	05/04/10	0.18 U	**250**	0.19 U	**320**	**3,100**	**14**	0.2 U	**3.8**	**35**	**52.8**	0.25 U	0.19 U	ND
SB-137-A	2 - 3	05/04/10	0.18 U	**31**	0.19 U	**28**	**240**	**1.9**	**2.4**	**0.81 I**	**4.7**	**9.81**	0.25 U	0.19 U	ND
SB-137-B	0 - 2	05/04/10	0.017 U	**2.3**	0.018 U	0.007 U	**17**	0.032 U	0.02 U	0.024 U	0.0065 U	ND	**6.3**	**7.5**	**13.8**
SB-137-B	2 - 3	05/04/10	**1.9**	0.02 U	0.019 U	**4.4**	**23**	0.033 U	0.02 U	0.025 U	0.0067 U	ND	**8.6**	**7.8**	**16.4**
SB-137-C	0 - 2	05/04/10	**2.5**	0.02 U	0.019 U	**1.1**	**20**	0.032 U	0.02 U	0.024 U	0.0066 U	ND	**12**	**11**	**23**
SB-137-C	2 - 3	05/04/10	**0.32**	0.02 U	**0.17**	0.0071 U	**4.9 I**	0.032 U	**0.33**	0.024 U	0.0067 U	**0.33**	**1.4**	**1.3**	**2.7**
SB-137-D	0 - 2	05/04/10	**0.073**	0.0019 U	**0.057**	**0.31**	0.24 U	0.0031 U	0.0019 U	0.0023 U	0.00064 U	ND	**0.5**	**0.25**	**0.75**
SB-137-D	2 - 3	05/04/10	**0.8**	0.02 U	**0.24**	0.0071 U	**4.2 I**	0.032 U	**0.21**	0.024 U	0.0067 U	**0.21**	**1.9**	**1.6**	**3.5**
SB-137-E	0 - 2	05/04/10	**0.47 I**	0.02 U	**0.34**	**0.33**	**3.7 I**	0.032 U	0.02 U	0.024 U	0.0065 U	ND	**2.2**	**1.5**	**3.7**
SB-137-E	2 - 3	05/04/10	**0.019**	0.002 U	**0.0096**	0.00071 U	0.26 U	0.0032 U	0.002 U	0.0024 U	0.00067 U	ND	**0.068**	**0.036**	**0.104**
SB-137-F	0 - 2	05/04/10	0.017 U	0.02 U	**0.54 I**	0.007 U	**10**	0.032 U	**0.26**	0.024 U	0.0065 U	**0.26**	**2**	**2**	**4**
SB-137-F	2 - 3	05/04/10	0.0017 U	0.002 U	0.0018 U	0.0007 U	**1.2**	0.0032 U	**0.047**	0.0024 U	0.00065 U	**0.047**	**0.1**	**0.06**	**0.16**
SB-137-G	0 - 2	05/04/10	**0.049 [0.013 I]**	0.01 U [0.01 U]	**0.16 [0.19]**	**0.11 [0.18]**	1.3 U [1.2 U]	0.016 U [0.016 U]	0.01 U [0.01 U]	0.012 U [0.012 U]	0.0034 U [0.0032 U]	ND [ND]	**0.21 [0.32]**	**0.12 [0.21]**	**0.33 [0.53]**
SB-137-G	2 - 3	05/04/10	0.0019 U [0.0018 U]	0.0022 U [0.002 U]	**0.15 [0.16]**	**0.083 [0.069]**	0.28 U [0.45 I]	0.0035 U [0.0032 U]	**0.068 [0.075]**	0.0027 U [0.0024 U]	**0.026 [0.029]**	**0.094 [0.104]**	**0.073 [0.078]**	**0.045 [0.048]**	**0.118 [0.126]**
SB-137-H	0.83 - 2.5	06/02/10	0.021 U	0.024 U	0.022 U	0.0084 U	0.97 U	0.038 U	0.024 U	0.029 U	0.0079 U	ND	**51**	**38**	**89**
SB-137-I	0.83 - 2.5	06/02/10	0.018 U	0.02 U	0.019 U	0.73 U	**2,500**	**8.9 I**	**2 I**	2.5 U	**17**	**27.9**	0.026 U	0.019 U	ND
SB-137-J	0.83 - 2.5	06/02/10	0.021 U	0.023 U	0.022 U	0.0083 U	**660**	**0.17**	**0.52**	0.029 U	**0.45**	**1.14**	0.03 U	0.022 U	ND
SB-137-K	0.83 - 2.5	06/02/10	**0.49**	0.02 U	0.019 U	0.0073 U	2.6 U	0.033 U	0.02 U	0.025 U	0.0068 U	ND	**0.7**	**0.59**	**1.29**
SB-137-L	0.83 - 2.5	06/02/10	**22**	0.023 U	0.022 U	0.0081 U	2.9 U	0.037 U	**1.1**	0.028 U	0.0076 U	**1.1**	**1.5**	**1.9**	**3.4**
SB-137-M	0.83 - 2.5	06/02/10	**1**	0.021 U	0.02 U	0.0076 U	**27**	0.035 U	**0.26**	0.026 U	0.0071 U	**0.26**	**3.5**	**1.9**	**5.4**
SB-137-N	0.83 - 2.5	06/02/10	**9.2**	0.02 U	0.019 U	0.0071 U	**34**	0.032 U	**0.52**	0.024 U	**0.061**	**0.581**	**6.2**	**2.8**	**9**
SB-137-O	0.83 - 2.5	06/02/10	**6.2 [7.3]**	0.021 U [0.022 U]	0.02 U [0.021 U]	0.0076 U [0.0078 U]	**42 [44]**	0.035 U [0.035 U]	0.021 U [0.022 U]	0.026 U [0.027 U]	0.0071 U [0.0073 U]	ND [ND]	**6.1 [9]**	**6.3 [7.2]**	**12.4 [16.2]**
SB-137-P	0.83 - 2.5	06/02/10	**0.48**	0.02 U	0.019 U	0.0071 U	**11**	0.032 U	0.02 U	0.024 U	0.0067 U	ND	**5.2**	**3.7**	**8.9**
SB-137-Q	0.83 - 2.5	06/02/10	0.02 U	0.022 U	0.021 U	0.0079 U	**1,400**	0.036 U	0.022 U	0.027 U	0.0074 U	ND	0.028 U	0.021 U	ND
SB-137-R	0.83 - 2.5	07/27/10	**0.44**	0.023 U	0.022 U	0.0083 U	**6.0**	0.038 U	0.023 U	0.029 U	**0.024 I**	**0.024**	**2.8**	**2.8**	**5.6**
SB-137-S	0.83 - 2.5	07/27/10	**1.2**	0.002 U	0.0019 U	0.00072 U	**18**	0.0033 U	**3.0**	0.0025 U	**0.073**	**3.073**	**3.2**	**2.7**	**5.9**

LEGEND

I = Reported value is between the laboratory method detection limit and laboratory practical quantitation limit.
K = Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
ND = Not detected
U = Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.

NOTES:
(1) Detected concentrations are in bold font.
(2) Duplicate samples are indicated by [concentration].

TABLE 9
SUMMARY OF TCLP ANALYTICAL RESULTS
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Location ID:	Depth (Feet)	Date Collected	Chlordane mg/L	Endrin mg/L	Heptachlor mg/L	Heptachlor Epoxide mg/L	Lindane mg/L	Methoxychlor mg/L	Toxaphene mg/L
COMP-1	1 - 2	04/08/10	**0.11**	0.00009 U	0.00012 U	0.00011 U	0.00012 U	0.00009 U	0.002 U
SB-137-A	0 - 2	05/04/10	0.0001 U	0.00009 U	0.00012 U	0.00011 U	0.39 I	0.00009 U	0.002 U
SB-137-A	2 - 3	05/04/10	0.0001 U	0.00009 U	0.00012 U	0.00011 U	0.078 I	0.00009 U	**0.18**
SB-137-C	0 - 2	05/04/10	0.0001 U	0.00009 U	0.00012 U	0.00011 U	0.00059 I	0.00009 U	0.028 I
SB-137-I	0.83 - 2.5	06/02/10	0.001 U	0.0009 U	0.0012 U	0.0011 U	0.091 I	0.0009 U	0.13 I
SB-137-L	0.83 - 2.5	06/02/10	0.0001 U	0.00009 U	0.00012 U	0.00011 U	0.00012 U	0.00009 U	0.002 U

LEGEND

U = Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
I = Reported value is between the laboratory method detection limit and laboratory practical quantitation limit.

NOTES:
(1) Detected concentrations are in bold font.

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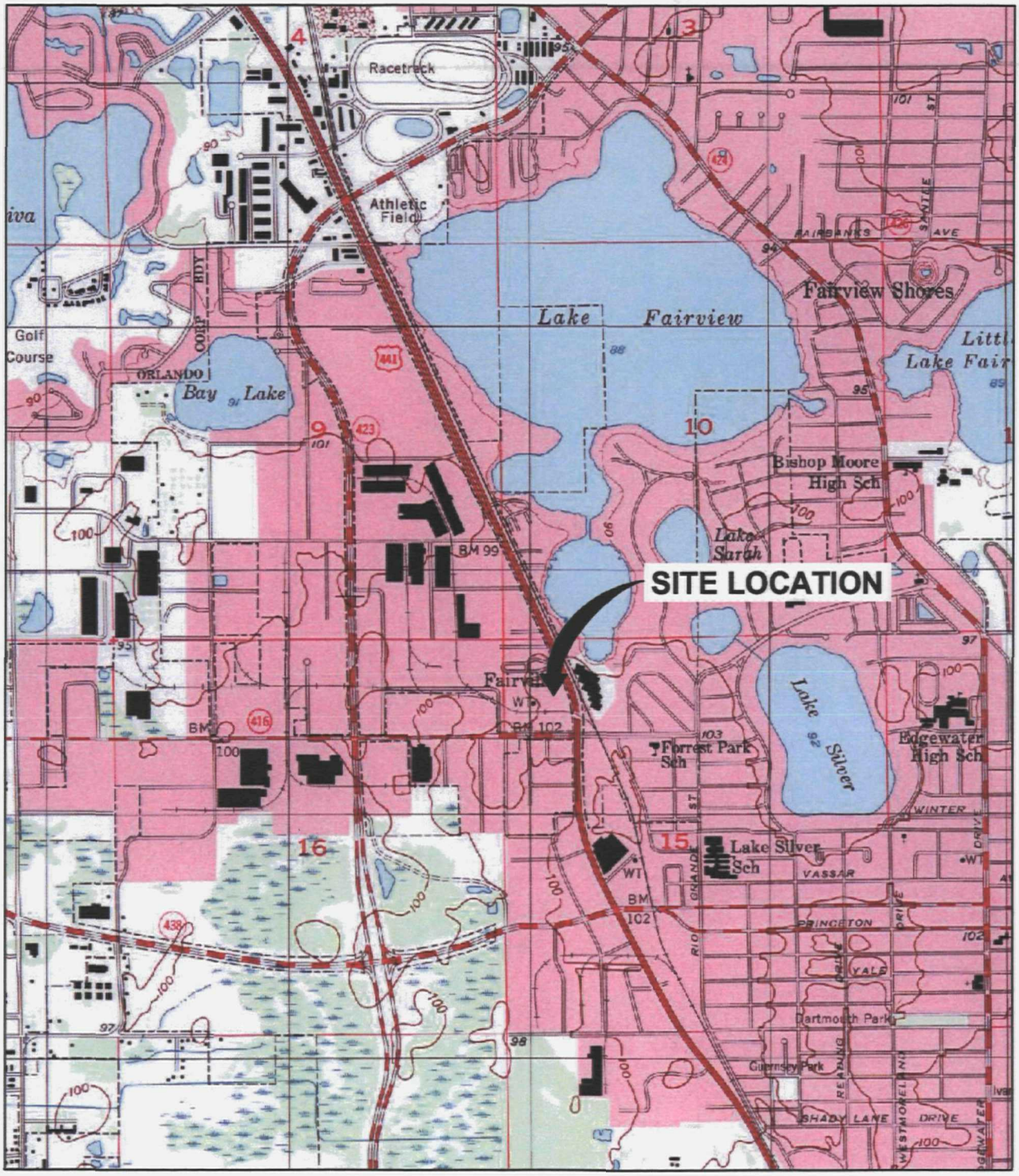
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ORLANDO WEST, FLORIDA, 1955.

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CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

TOPOGRAPHIC MAP OF SITE LOCATION AND VICINITY

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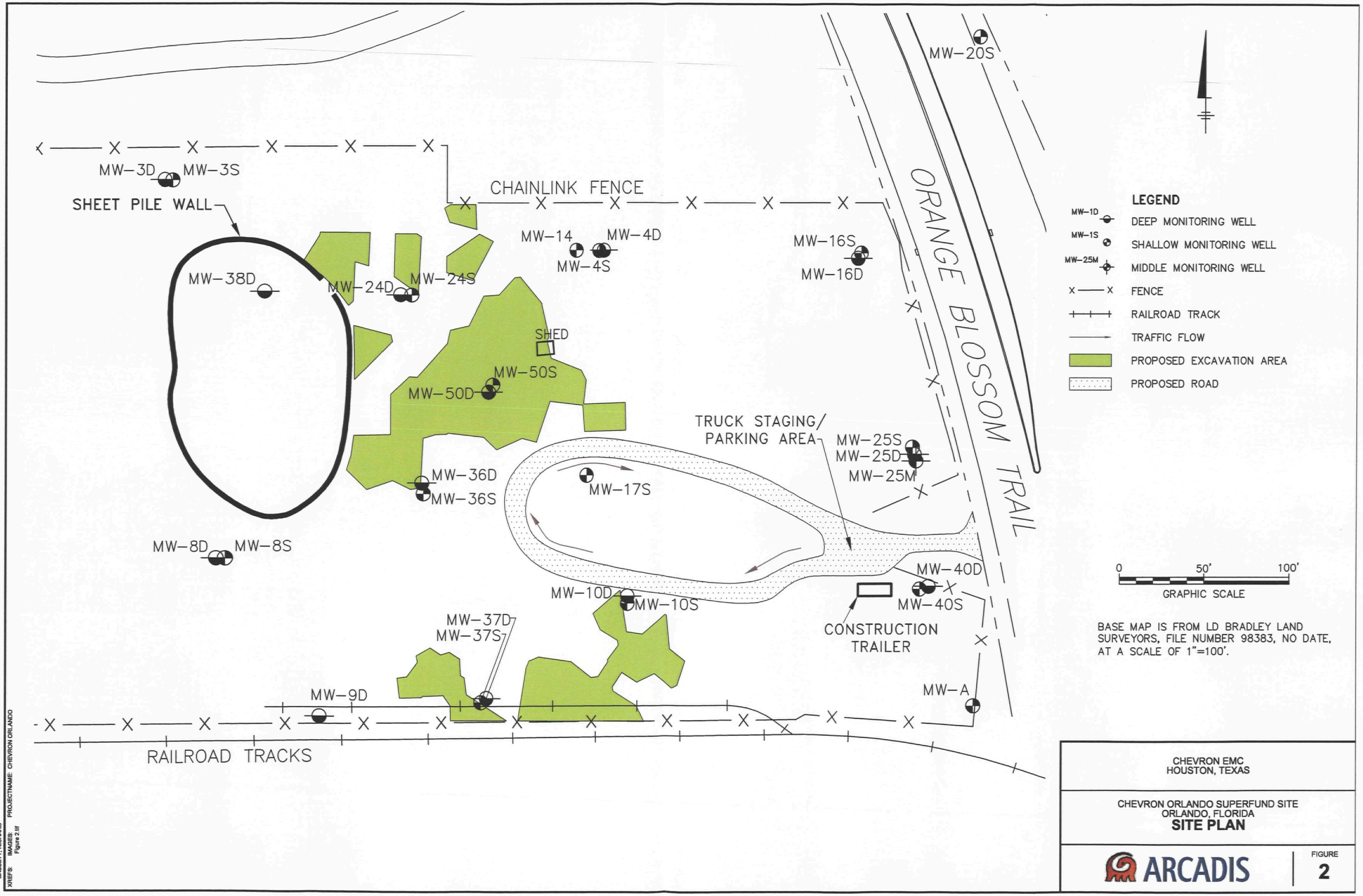
FIGURE
1


MW-20S
CHAINLINK FENCE
MW-3D
MW-3S
SHEET PILE WALL
MW-38D
MW-24D
MW-24S
MW-14
MW-4D
MW-4S
MW-16S
MW-16D
SHED
MW-50S
MW-50D
ORANGE BLOSSOM TRAIL
TRUCK STAGING/ PARKING AREA
MW-25S
MW-25D
MW-25M
MW-36D
MW-36S
MW-17S
MW-8D
MW-8S
MW-40D
MW-40S
MW-10D
MW-10S
CONSTRUCTION TRAILER
MW-37D
MW-37S
MW-9D
MW-A
RAILROAD TRACKS
LEGEND
MW-1D DEEP MONITORING WELL
MW-1S SHALLOW MONITORING WELL
MW-25M MIDDLE MONITORING WELL
FENCE
RAILROAD TRACK
TRAFFIC FLOW
PROPOSED EXCAVATION AREA
PROPOSED ROAD
0
50'
100'
GRAPHIC SCALE
BASE MAP IS FROM LD BRADLEY LAND SURVEYORS, FILE NUMBER 98383, NO DATE, AT A SCALE OF 1"=100'.

CHEVRON EMC
HOUSTON, TEXAS

CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA
SITE PLAN

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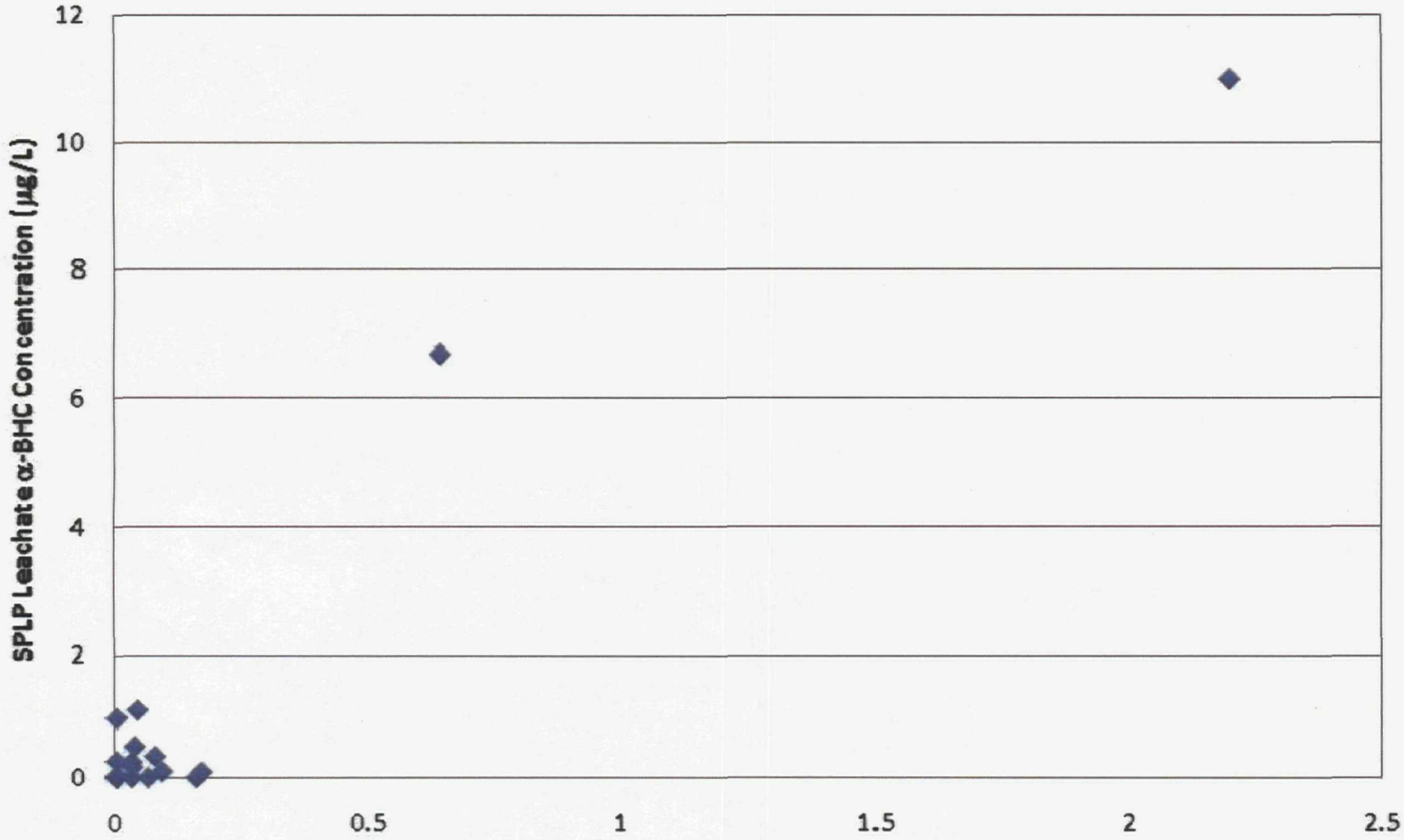
FIGURE 2

Soil BHC Concentration versus SPLP Leachate Concentration
α-BHC



ARCADIS *Infrastructure, environment, facilities* 3240 El Camino Real Suite 200 Irvine, California 92602 Tel: 714.730.9052 Fax: 714.730.9345 www.arcadis-us.com	Client: Chevron EMC Bellaire, Texas	Project Manager: Chevron Orlando Superfund Site	**Soil BHC Concentration versus SPLP Leachate Concentration alpha-BHC** Orlando, Florida	Figure 3
	Checked By: Mark Miller	Cartography By: Patrick H. Short		
	Project: B0046727.0000.0000.00004	Date: 2/01/2010		

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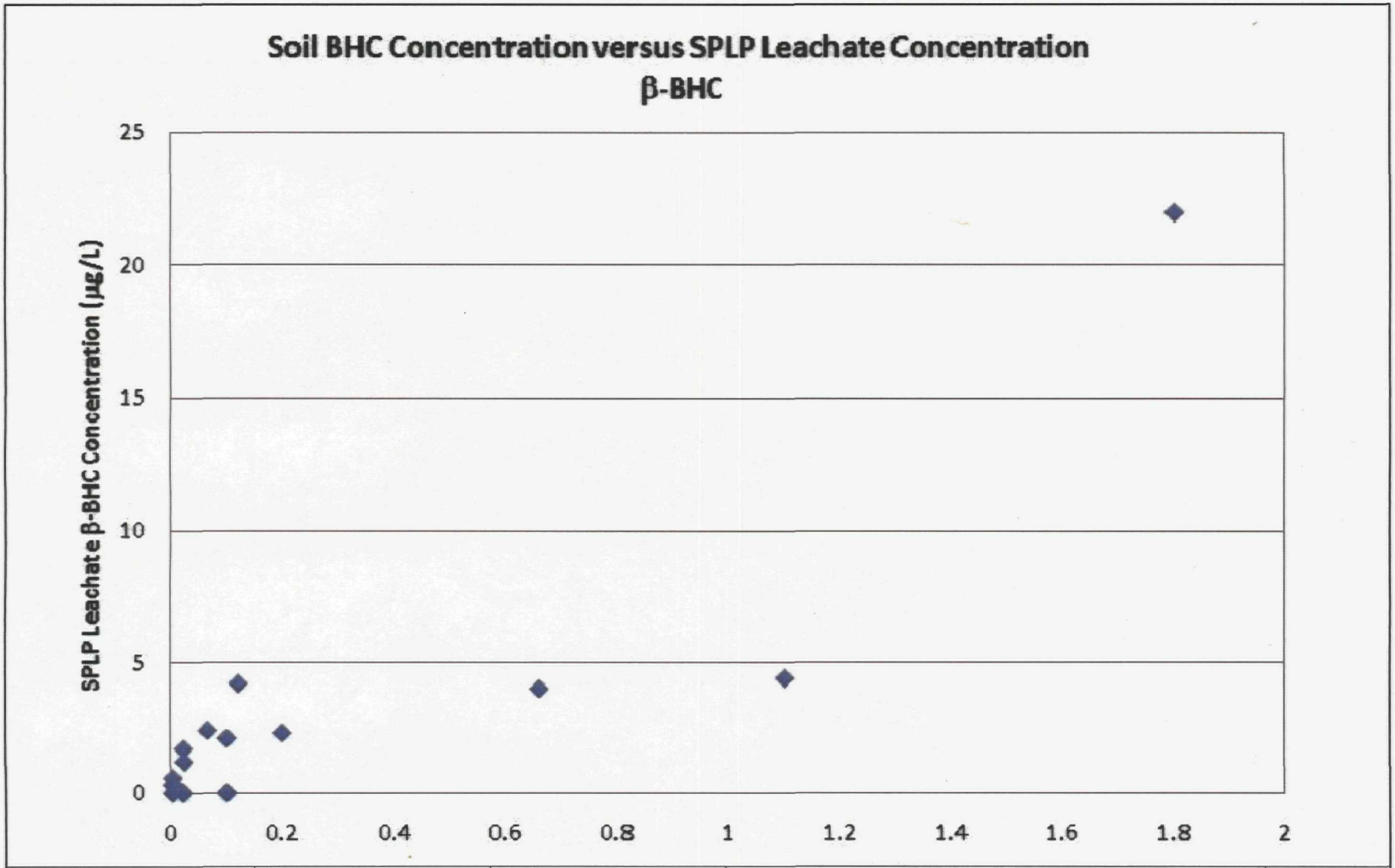

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Soil BHC Concentration versus SPLP Leachate Concentration beta-BHC

Orlando, Florida

Figure 4

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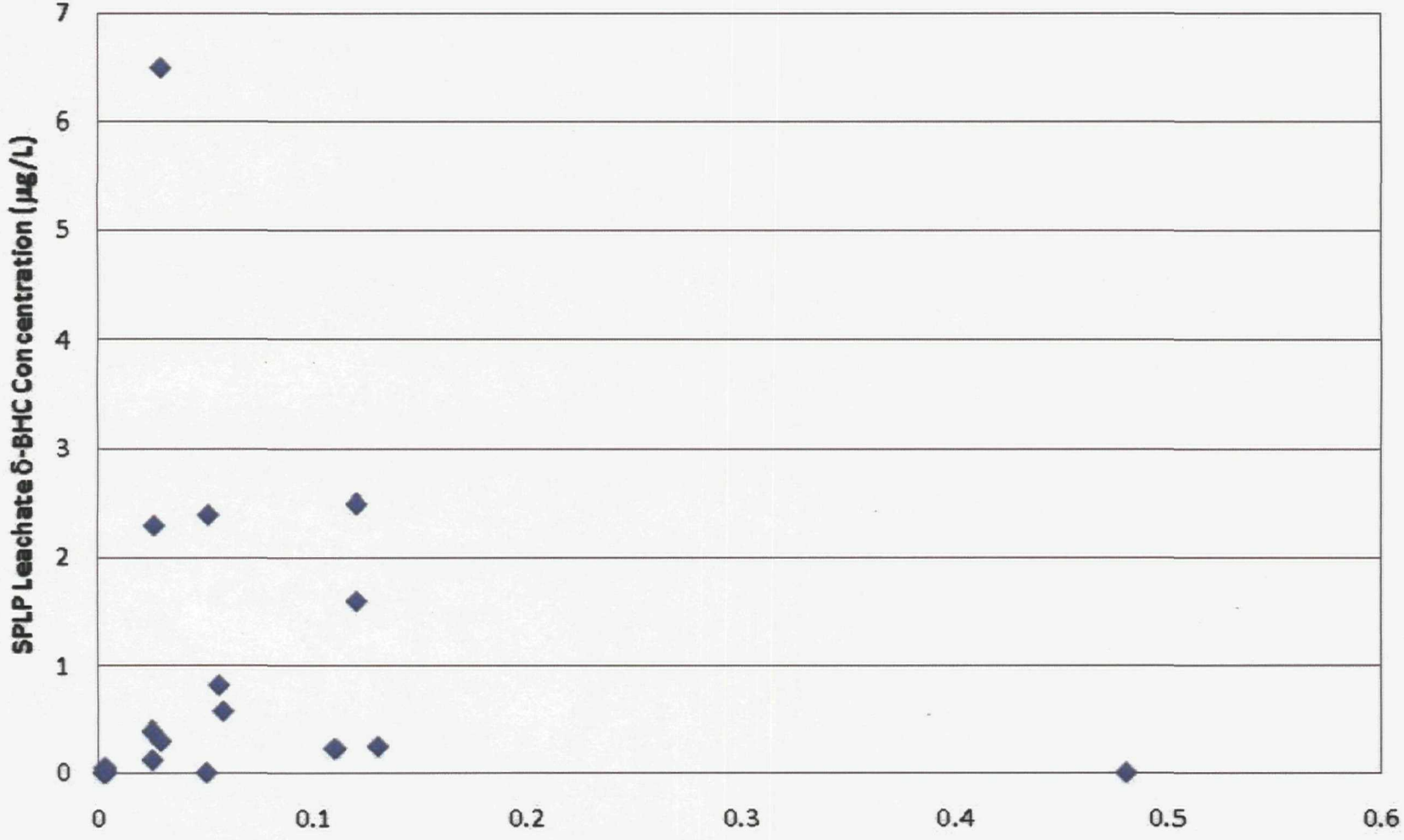
Soil BHC Concentration versus SPLP Leachate Concentration
δ-BHC



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Soil BHC Concentration versus SPLP Leachate Concentration delta-BHC

Orlando, Florida

Figure
5

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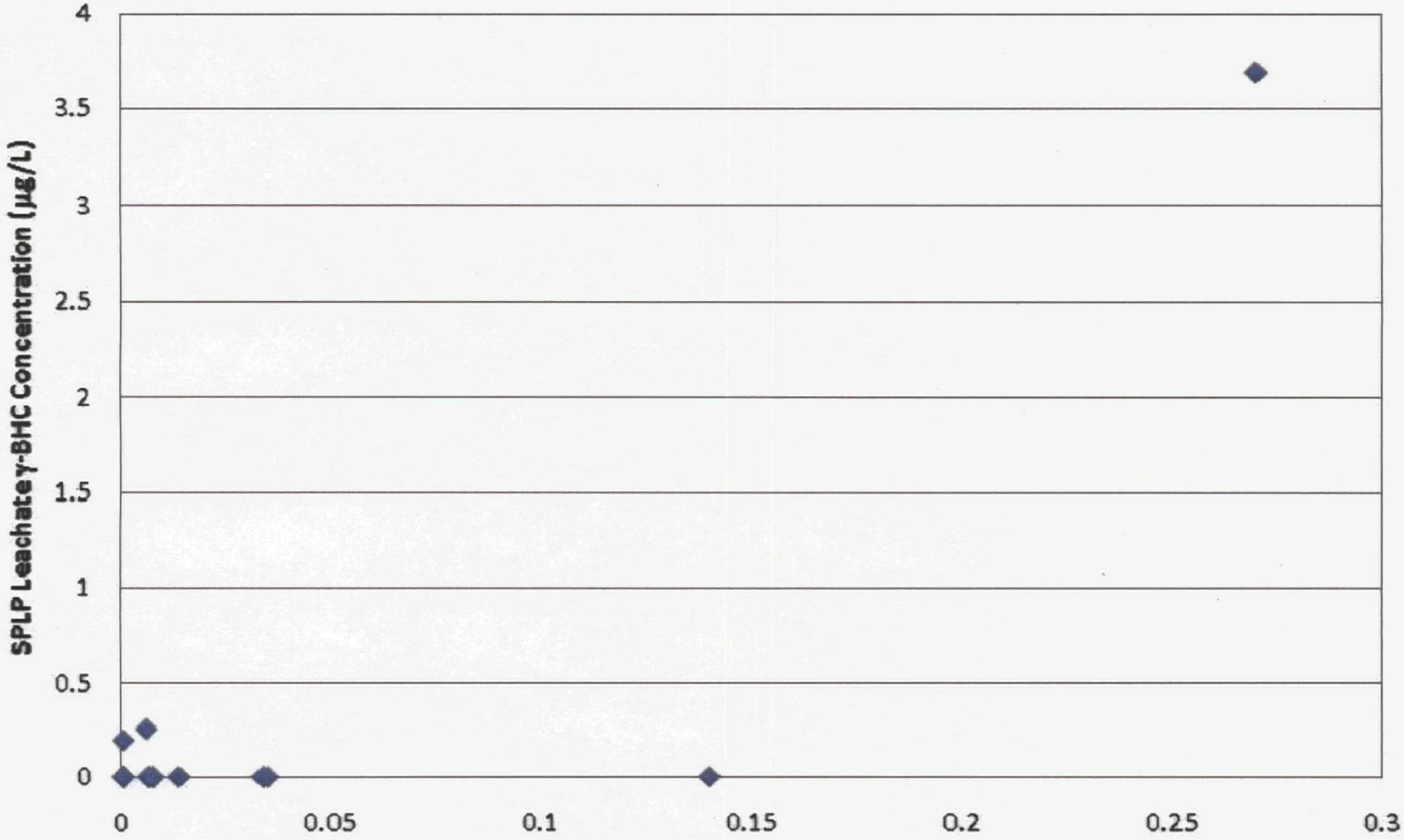
Soil BHC Concentration versus SPLP Leachate Concentration
γ-BHC



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Soil BHC Concentration versus SPLP Leachate Concentration gamma-BHC

Orlando, Florida

Figure 6

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MW-20S

MW-3D MW-3S

SHEET PILE WALL

CHAINLINK FENCE

15" CMP

MW-38D

MW-24D

MW-24S

MW-14

MW-4D

MW-4S

MW-16S

MW-16D

SHED

MW-50S

MW-50D

MW-36D

MW-36S

MW-17S

MW-8D MW-8S

MW-10D

MW-10S

MW-37D

MW-37S

MW-9D

MW-25S

MW-25D

MW-25M

MW-40D

MW-40S

MW-A

TSB-1 TSB-2 TSB-3 TSB-4 TSB-5 TSB-6 TSB-7 TSB-8 TSB-9 TSB-10 TSB-11 TSB-12 TSB-13 TSB-14 TSB-15 TSB-16 TSB-17 TSB-18 TSB-19 TSB-20 TSB-21 TSB-22 TSB-23 TSB-24 TSB-25 TSB-26 TSB-27 TSB-28 TSB-29 TSB-30 TSB-31

RAILROAD TRACKS

LEGEND

- MW-1D — DEEP MONITORING WELL
- MW-1S — SHALLOW MONITORING WELL
- MW-25M — MIDDLE MONITORING WELL
- X — X — FENCE
- RAILROAD TRACK
- TSB-1 — DECEMBER 2003 SOIL BORING LOCATION
- 1 — SOIL BORING LOCATION
- PROPOSED EXCAVATION AREA

0 50' 100'

GRAPHIC SCALE

BASE MAP IS FROM LD BRADLEY LAND SURVEYORS, FILE NUMBER 98383, NO DATE, AT A SCALE OF 1"=100'.

CHEVRON EMC
HOUSTON, TEXAS

CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

PROPOSED HAZARDOUS SOIL EXCAVATION BETWEEN 0-2 FEET BGS

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FIGURE 7

CITY:FULLERTON DIV/GROUP: ENV LD:R. HUBATCH PIC:J. VOGELEY PM:J. ALLEN TM:J. ALLEN
I:\Arcadis-us\officedata\Roseville-CA\ENVCAD\Roseville-CA\RETURN-TO\Fullerton-CA\B0046727000000006\REPORTS\QUARTERLY\3Q10\DWG\B0046727104-1 0_2FT.dwg
PLTFULL.CTB PLOTTED: 11/18/2010 9:29 AM BY: ROBITAILLE, BEVERLY
LAYOUT: FIG 1 0-2 FT SAVED: 11/18/2010 9:15 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE:
XREFS: IMAGES: PROJECTNAME: CHEVRON ORLANDO
B0046727006X1

CITY:FULLERTON DIV/GROUP: ENV LD:R. HUBATCH PIC:J. VOGELEY PM:J. ALLEN TM:J. ALLEN
\\Arcadis-us\officedata\Roseville-CA\ENVCAD\Roseville-CA\RETURN-TO\Fullerton-CA\B0046727\0000\00006\REPORTS\QUARTERLY\3Q10\DWG\B04672704-1 0_2FT.dwg LAYOUT: F8 SAVED: 11/18/2010 9:27 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/18/2010 9:27 AM BY: ROBITAILLE, BEVERLY
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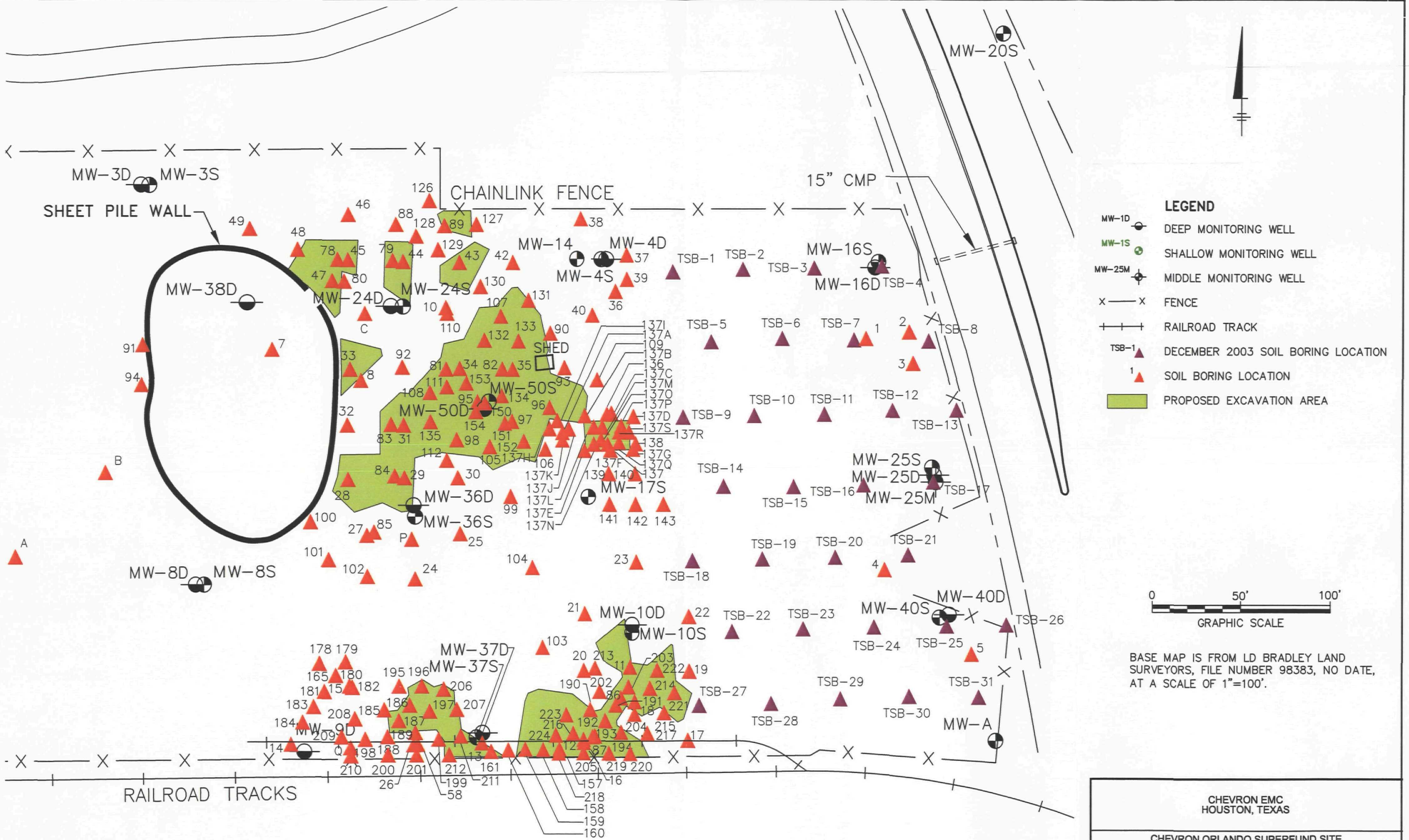

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CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

PROPOSED NONHAZARDOUS SOIL EXCAVATION BETWEEN 0-2 FEET BGS

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FIGURE
8

MW-20S

MW-3D MW-3S

CHAINLINK FENCE

15" CMP

SHEET PILE WALL

MW-38D

MW-24D MW-24S

MW-14 MW-4D MW-4S

MW-16S MW-16D

SHED

MW-50S MW-50D

MW-36D MW-36S

MW-17S

MW-25S MW-25D MW-25M

MW-8D MW-8S

MW-10D MW-10S

MW-37D MW-37S

MW-9D

MW-40D MW-40S

MW-A

TSB-1 TSB-2 TSB-3 TSB-4 TSB-5 TSB-6 TSB-7 TSB-8 TSB-9 TSB-10 TSB-11 TSB-12 TSB-13 TSB-14 TSB-15 TSB-16 TSB-17 TSB-18 TSB-19 TSB-20 TSB-21 TSB-22 TSB-23 TSB-24 TSB-25 TSB-26 TSB-27 TSB-28 TSB-29 TSB-30 TSB-31

RAILROAD TRACKS

LEGEND

- MW-1D — DEEP MONITORING WELL
- MW-1S — SHALLOW MONITORING WELL
- MW-25M — MIDDLE MONITORING WELL
- X — X — FENCE
- RAILROAD TRACK
- TSB-1 — DECEMBER 2003 SOIL BORING LOCATION
- 1 — SOIL BORING LOCATION
- PROPOSED EXCAVATION AREA

0 50' 100'
GRAPHIC SCALE

BASE MAP IS FROM LD BRADLEY LAND SURVEYORS, FILE NUMBER 98383, NO DATE, AT A SCALE OF 1"=100'.

CHEVRON EMC
HOUSTON, TEXAS

CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

PROPOSED NONHAZARDOUS SOIL EXCAVATION BETWEEN 2-5 FEET BGS

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FIGURE
9

MW-20S

MW-3D MW-3S

SHEET PILE WALL

CHAINLINK FENCE

15" CMP

MW-38D

MW-14 MW-4D

MW-4S

MW-16S

MW-16D

MW-24D MW-24S

SHED

MW-50S

MW-50D

MW-36D

MW-36S

MW-17S

MW-25S

MW-25D

MW-25M

MW-8D MW-8S

MW-10D

MW-10S

MW-37D

MW-37S

MW-9D

MW-40D

MW-40S

MW-A

TSB-1 TSB-2 TSB-3 TSB-4 TSB-5 TSB-6 TSB-7 TSB-8 TSB-9 TSB-10 TSB-11 TSB-12 TSB-13 TSB-14 TSB-15 TSB-16 TSB-17 TSB-18 TSB-19 TSB-20 TSB-21 TSB-22 TSB-23 TSB-24 TSB-25 TSB-26 TSB-27 TSB-28 TSB-29 TSB-30 TSB-31

RAILROAD TRACKS

LEGEND

- MW-1D — DEEP MONITORING WELL
- MW-1S — SHALLOW MONITORING WELL
- MW-25M — MIDDLE MONITORING WELL
- X — X — FENCE
- RAILROAD TRACK
- TSB-1 — DECEMBER 2003 SOIL BORING LOCATION
- 1 — SOIL BORING LOCATION
- PROPOSED EXCAVATION AREA

0 50' 100'

GRAPHIC SCALE

BASE MAP IS FROM LD BRADLEY LAND SURVEYORS, FILE NUMBER 98383, NO DATE, AT A SCALE OF 1"=100'.

CHEVRON EMC
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CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

PROPOSED NONHAZARDOUS SOIL EXCAVATION BETWEEN 5-7 FEET BGS

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FIGURE 10

CITY:FULLERTON DIV/GROUP: ENV LD:R. HURATCH PIC:J. VOGELEY PM:J. ALLEN TM:J. ALLEN
\\Arcadis-us\officedata\Roseville-CA\ENVCAD\Roseville-CA\RETURN-TO\Fullerton-CA\B0046727\0000000006\REPORTS\QUARTERLY\Q10\DWG\B0046727104-3 5_7FT.dwg LAYOUT: FIG 3 5-7FT SAVED: 11/18/2010 9:27 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/18/2010 9:27 AM BY: ROBITAILLE, BEVERLY
XREFS: IMAGES: PROJECTNAME: CHEVRON ORLANDO
B0046727106X1

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Appendices

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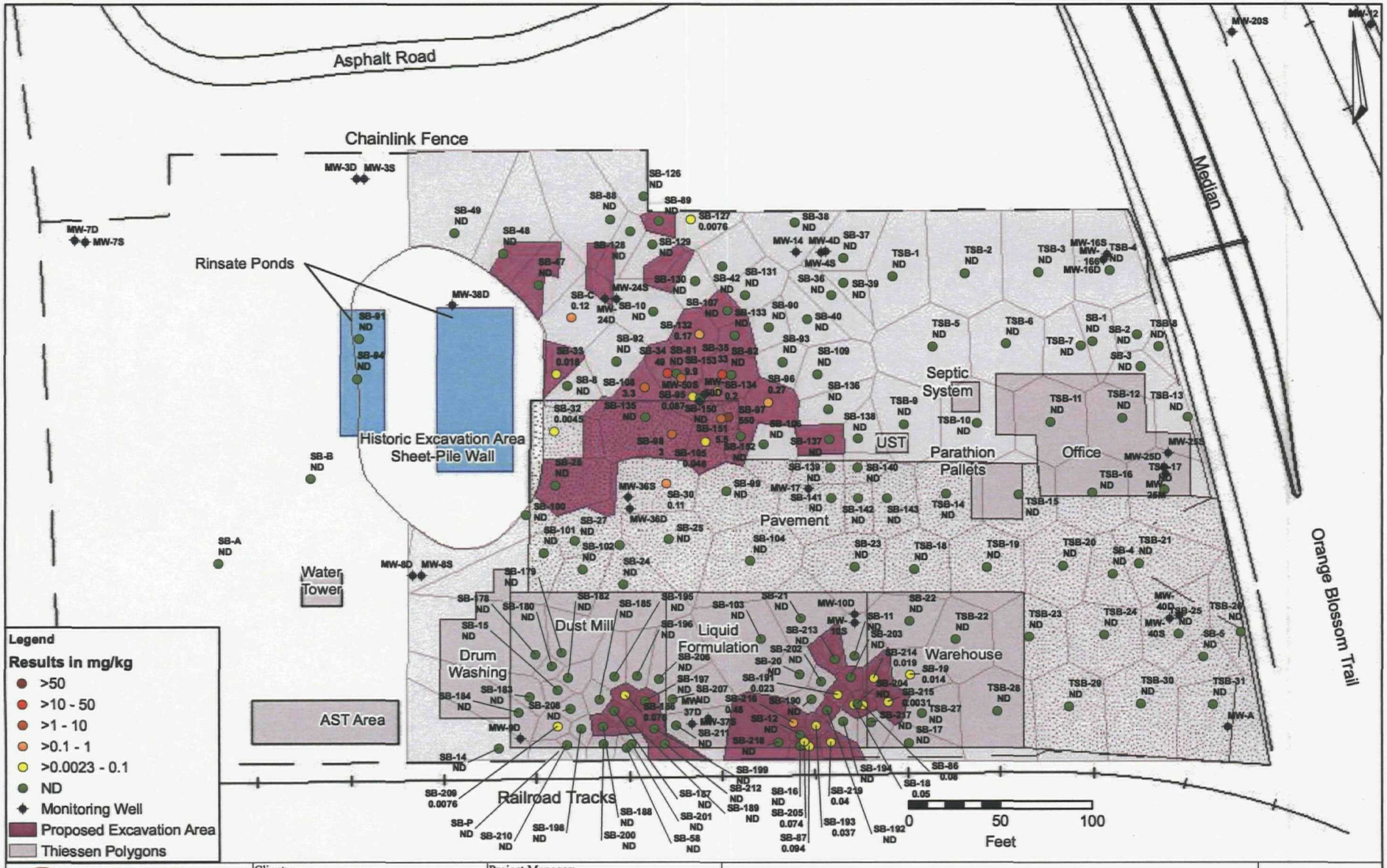
Appendix A

Site Plans with Analytical Results



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	Checked By: Mark Miller	Cartography By: Patrick H. Short	
	Project: B0046727.0000.0000.00004	Date: 2/01/2010	

Figure
A-1

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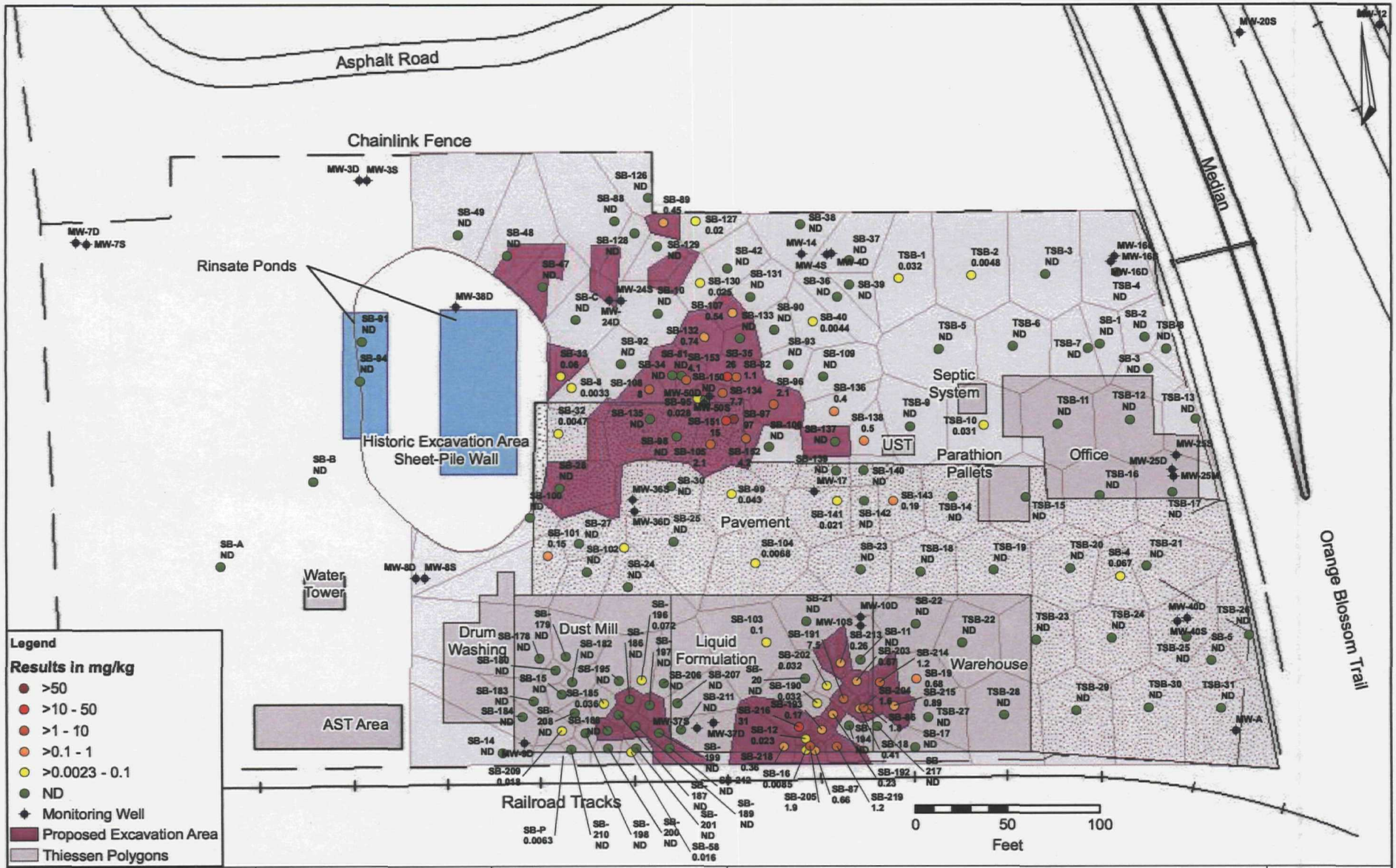

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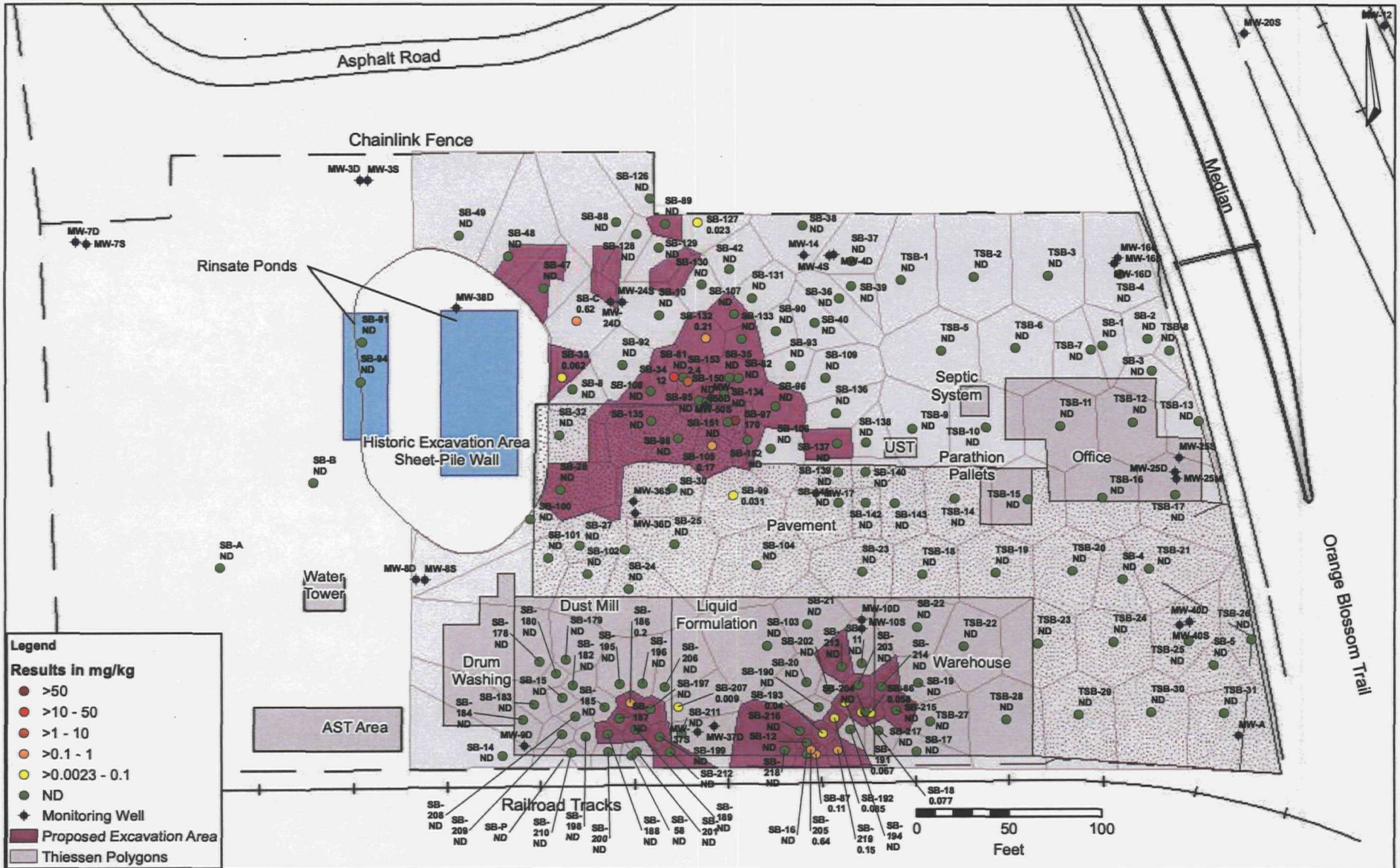
Impacted Soil and Proposed Excavation Areas - beta-BHC at 0-2 feet bgs

Orlando, Florida

Figure
A-2



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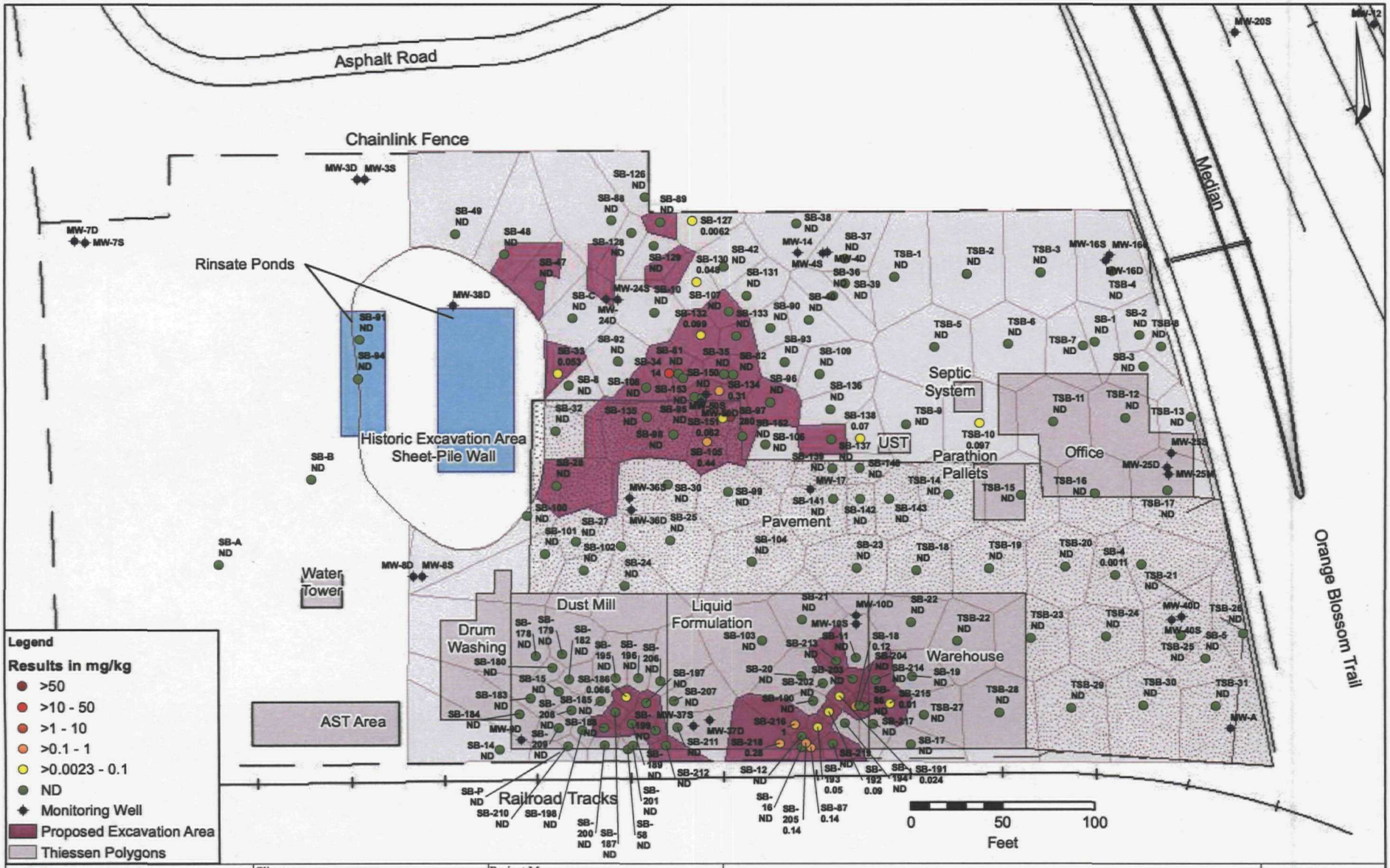
	Checked By: Mark Miller	Cartography By: Patrick H. Short	
	Project: B0046727.0000.0000.00004	Date: 2/01/2010	Figure A-3



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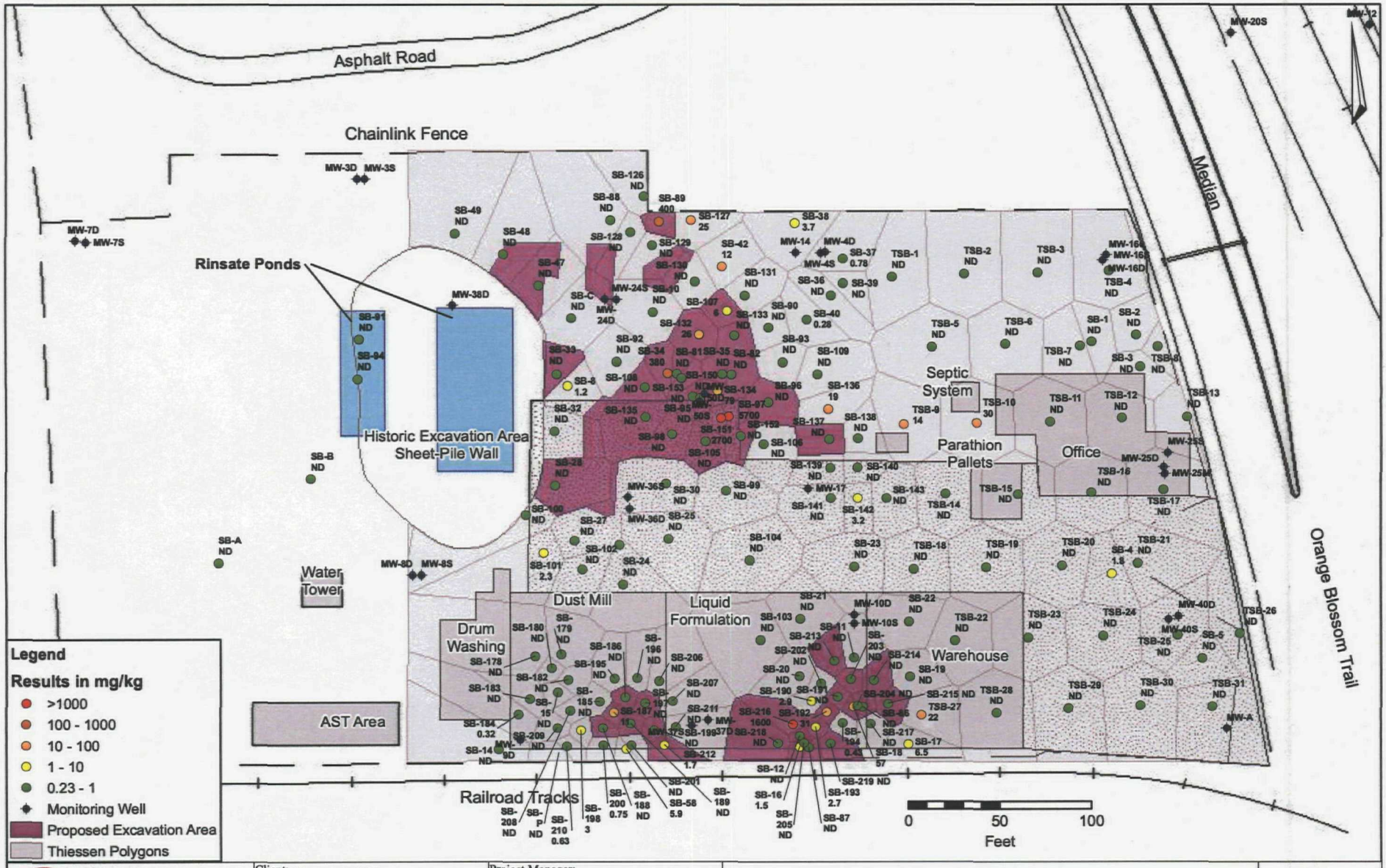
Impacted Soil and Proposed Excavation Areas - gamma-BHC at 0-2 feet bgs

Orlando, Florida

Figure
A-4



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	Checked By: Mark Miller	Cartography By: Patrick H. Short	Figure A-5
	Project: B0046727.0000.0000.00004	Date: 2/01/2010	

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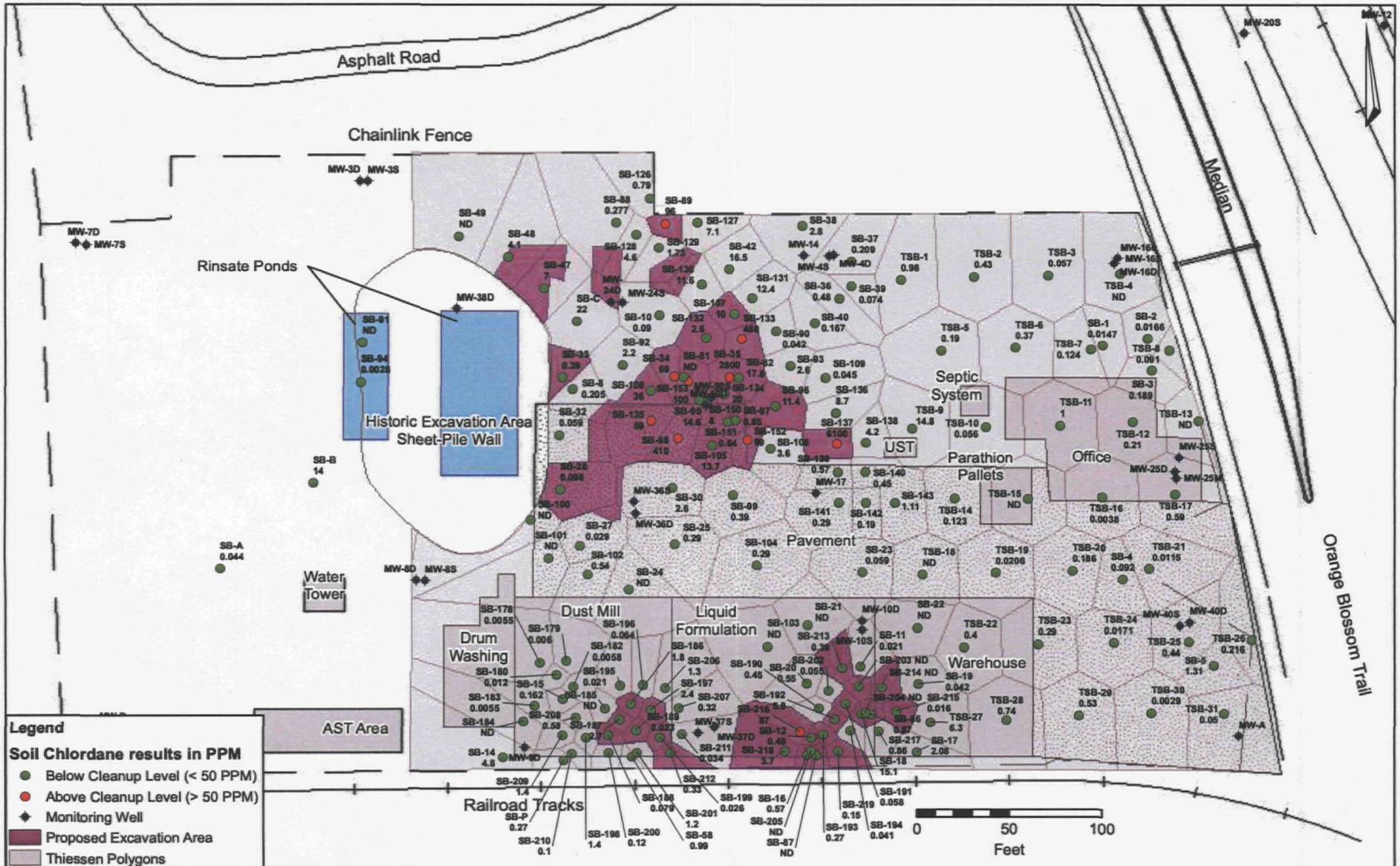

Legend

Soil Chlordane results in PPM

- Below Cleanup Level (< 50 PPM)
- Above Cleanup Level (> 50 PPM)
- Monitoring Well
- Proposed Excavation Area
- Thiessen Polygons

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Project: B0046727.0000.0000.00004	Date: 2/01/2010

Impacted Soil and Proposed Excavation Areas - Total Chlordane at 0-2 feet bgs

Orlando, Florida

Figure
A-6

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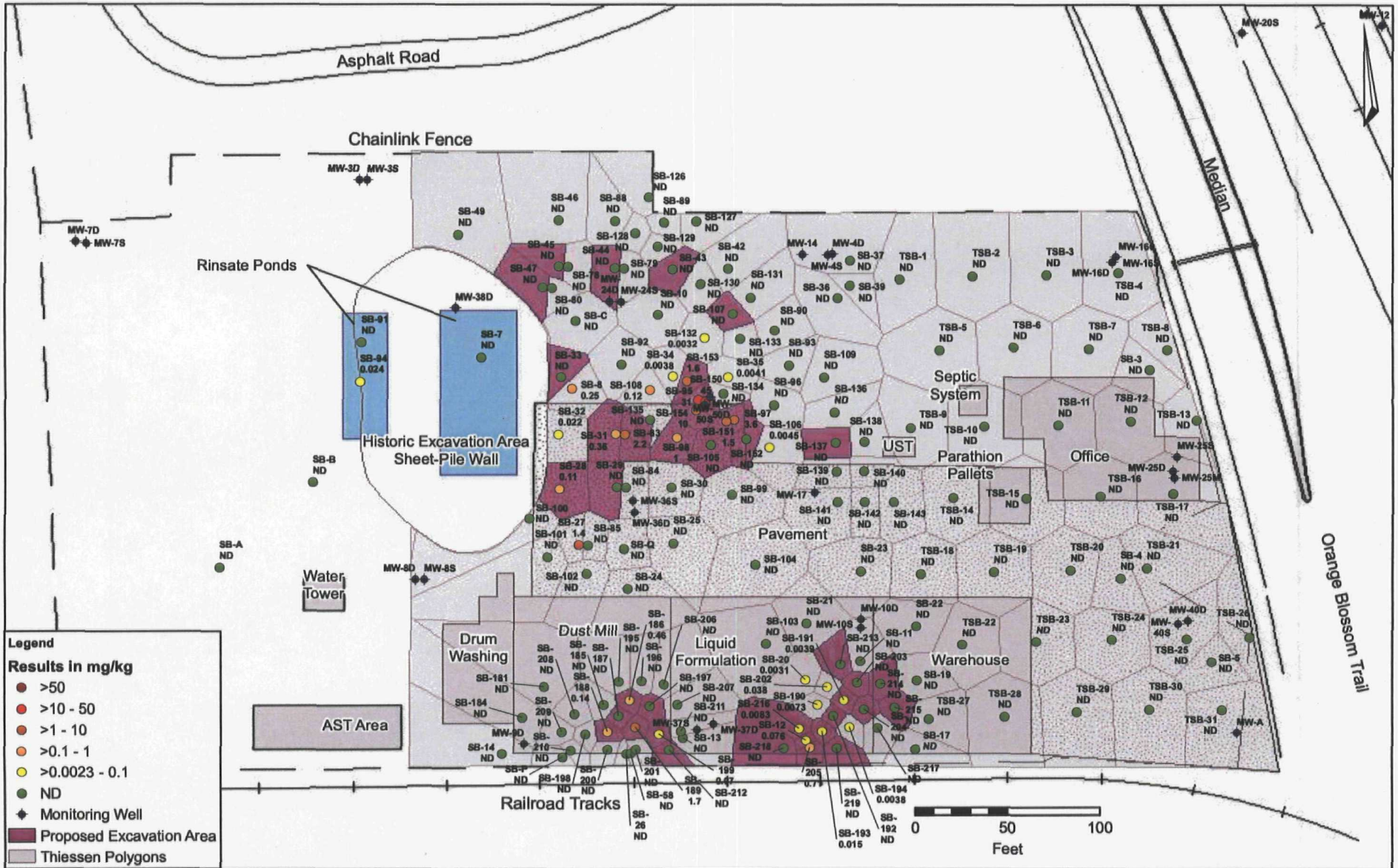

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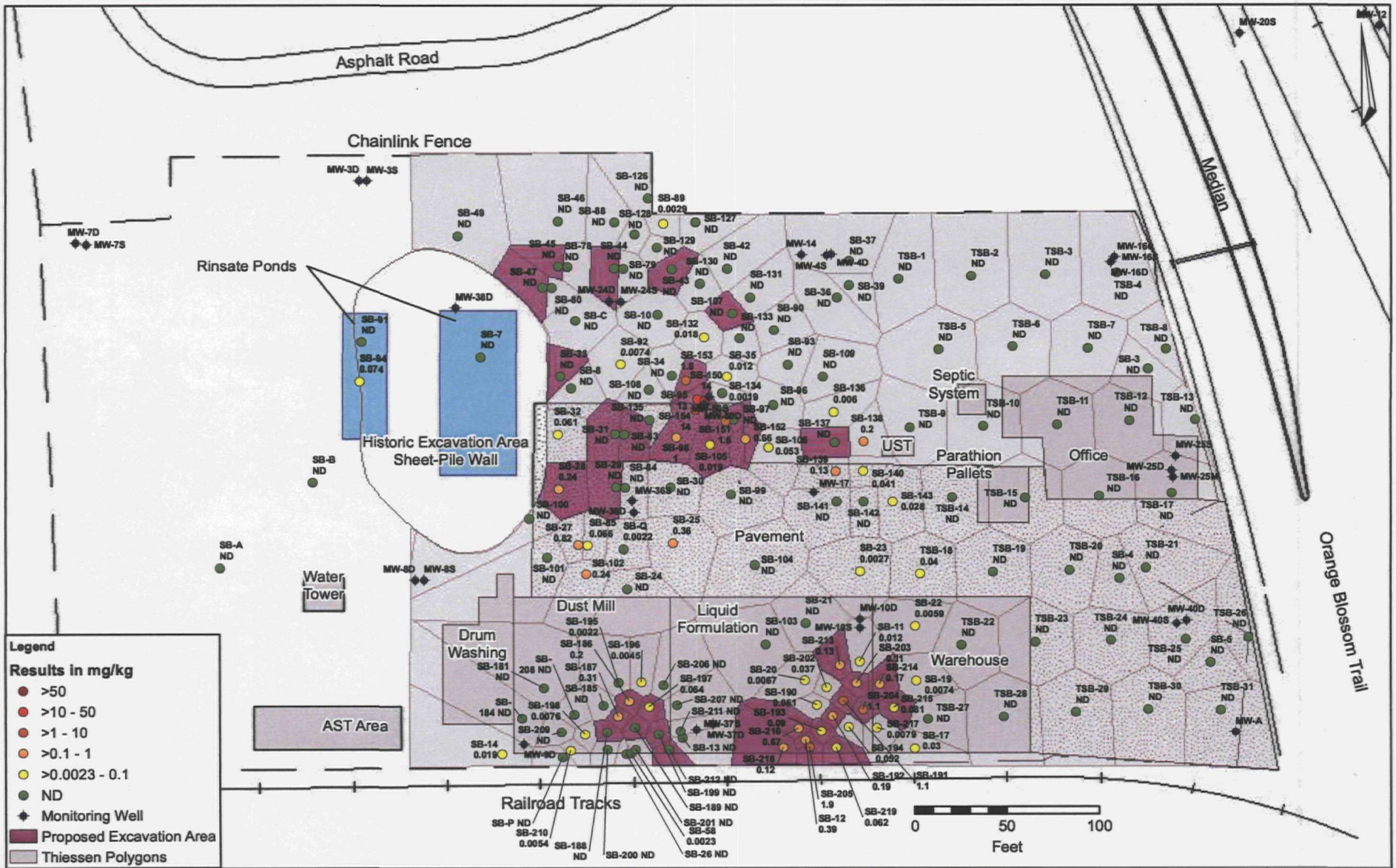
	Checked By: Mark Miller	Cartography By: Patrick H. Short	
	Project: B0046727.0000.0000.00004	Date: 2/01/2010	

Figure
A-7



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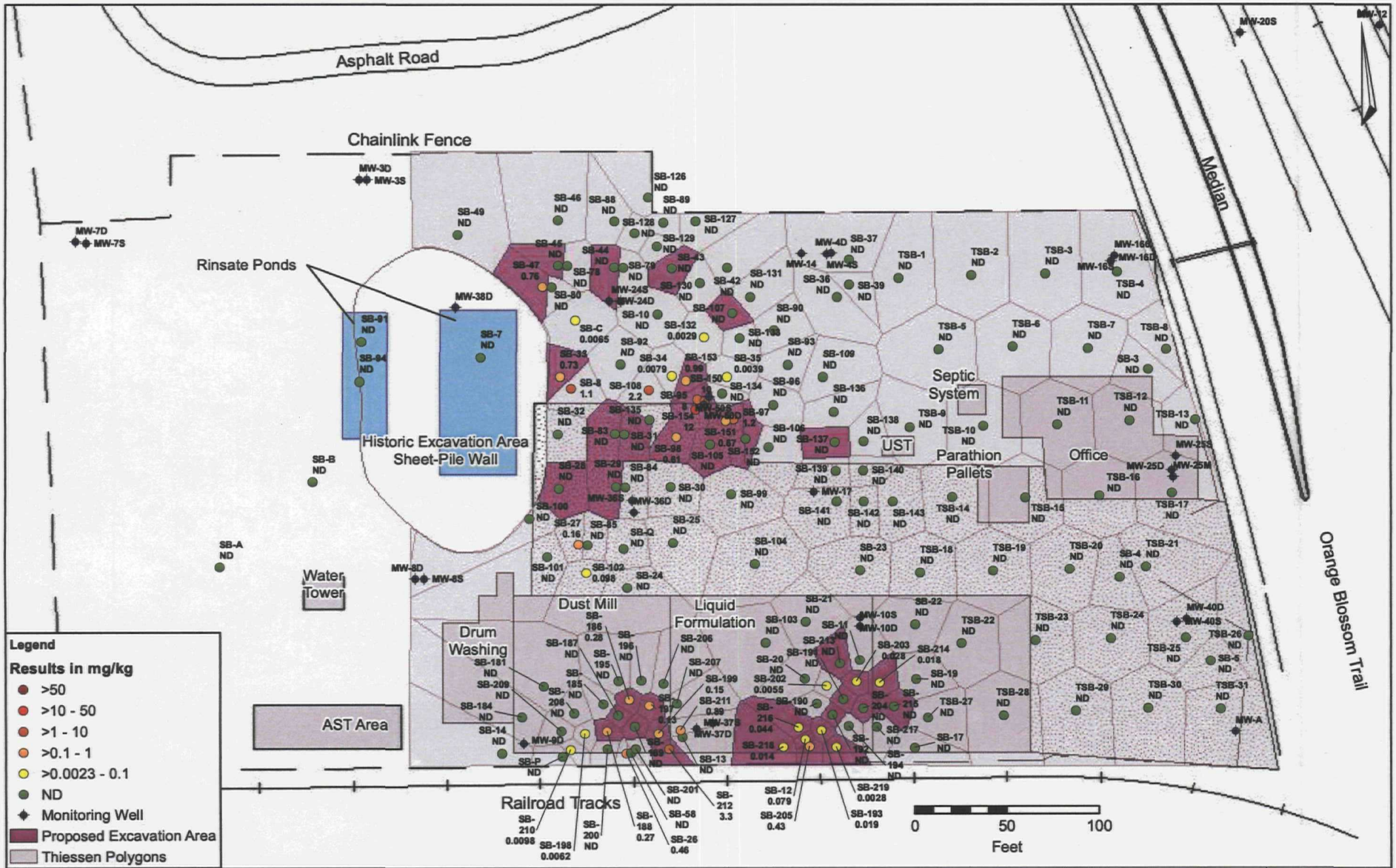
Checked By: Mark Miller	Cartography By: Patrick H. Short
Project: B0046727.0000.0000.00004	Date: 2/01/2010

Impacted Soil and Proposed Excavation Areas - beta-BHC at 2-5 feet bgs

Orlando, Florida

Figure

A-8



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Checked By: Mark Miller	Cartography By: Patrick H. Short
Project: B0046727.0000.0000.00004	Date: 2/01/2010

Impacted Soil and Proposed Excavation Areas - delta-BHC at 2-5 feet bgs

Orlando, Florida

Figure
A-9

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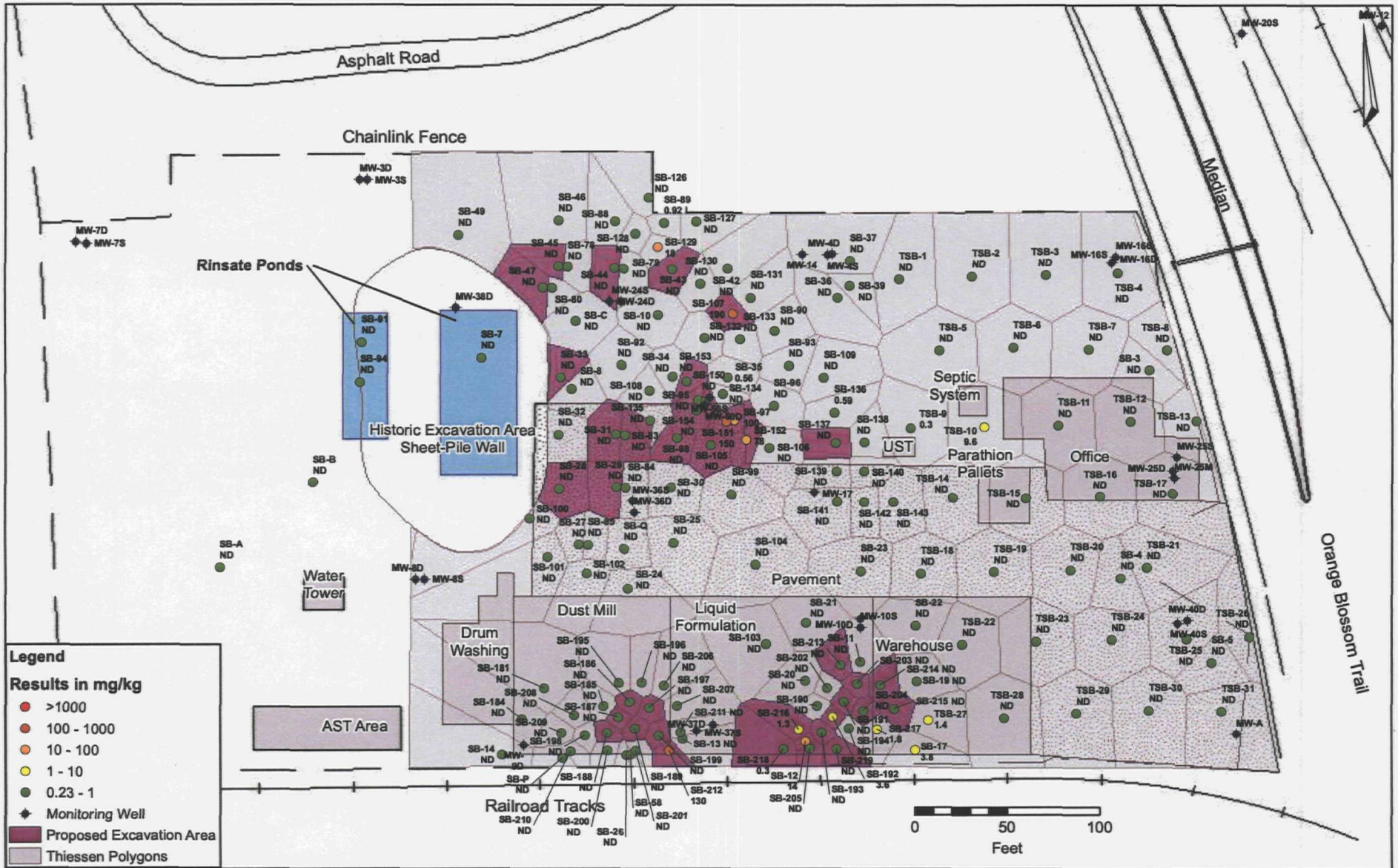
	Checked By: Mark Miller	Cartography By: Patrick H. Short	
	Project: B0046727.0000.0000.00004	Date: 2/01/2010	

Figure
A-10



ARCADIS Infrastructure, environment, facilities 3240 El Camino Real Suite 200 Irvine, California 92602 Tel: 714.730.9052 Fax: 714.730.9345 www.arcadis-us.com	Client: Chevron EMC Bellaire, Texas	Project Manager: Chevron Orlando Superfund Site	**Impacted Soil and Proposed Excavation Areas - Toxaphene at 2-5 feet bgs** Orlando, Florida	Figure A-11
	Checked By: Mark Miller	Cartography By: Patrick H. Short		
	Project: B0046727.0000.0000.00004	Date: 2/01/2010		

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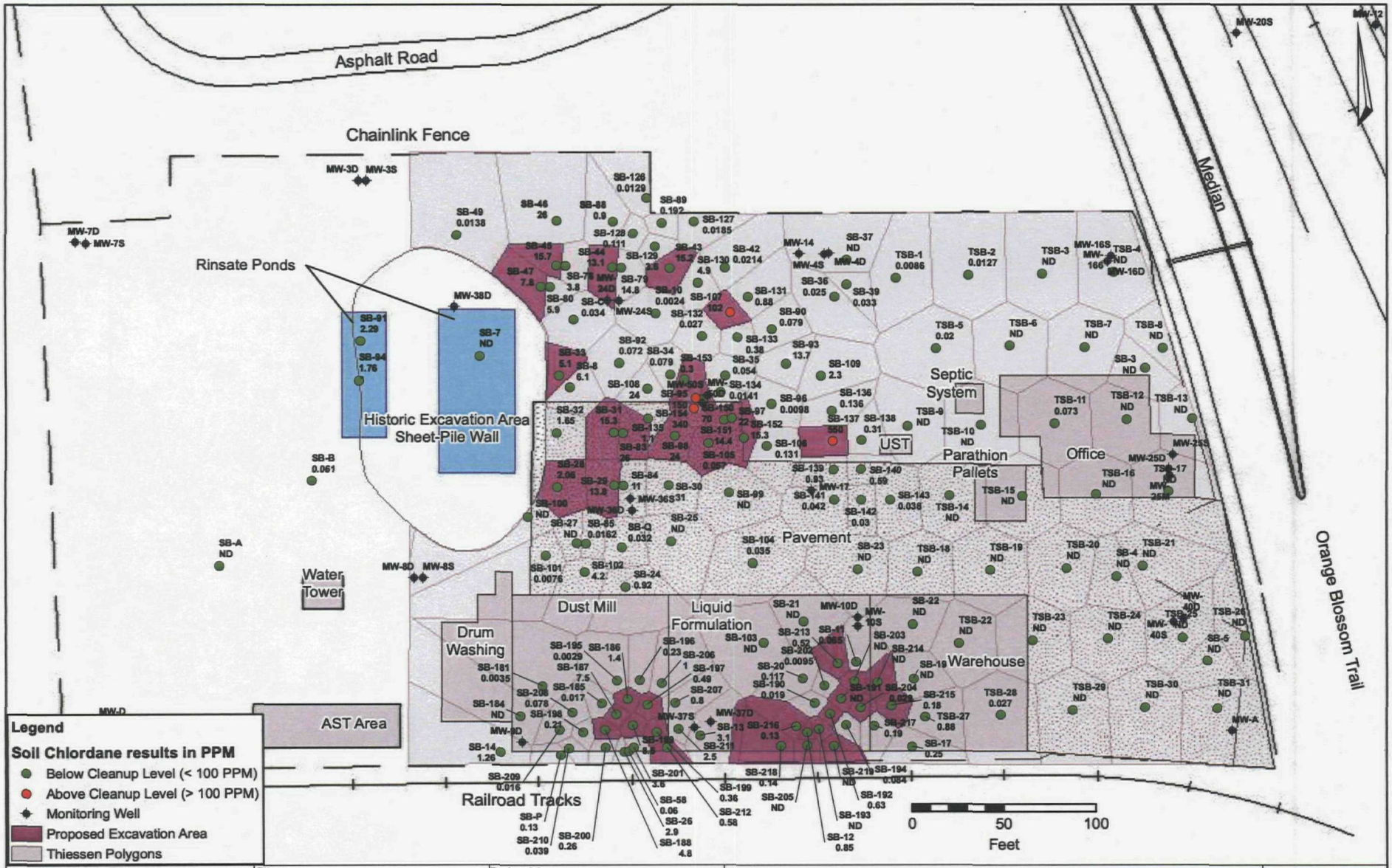

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Checked By: Mark Miller	Cartography By: Patrick H. Short
Project: B0046727.0000.0000.00004	Date: 2/01/2010

Impacted Soil and Proposed Excavation Areas - Total Chlordane at 2-5 feet bgs

Orlando, Florida

Figure
A-12

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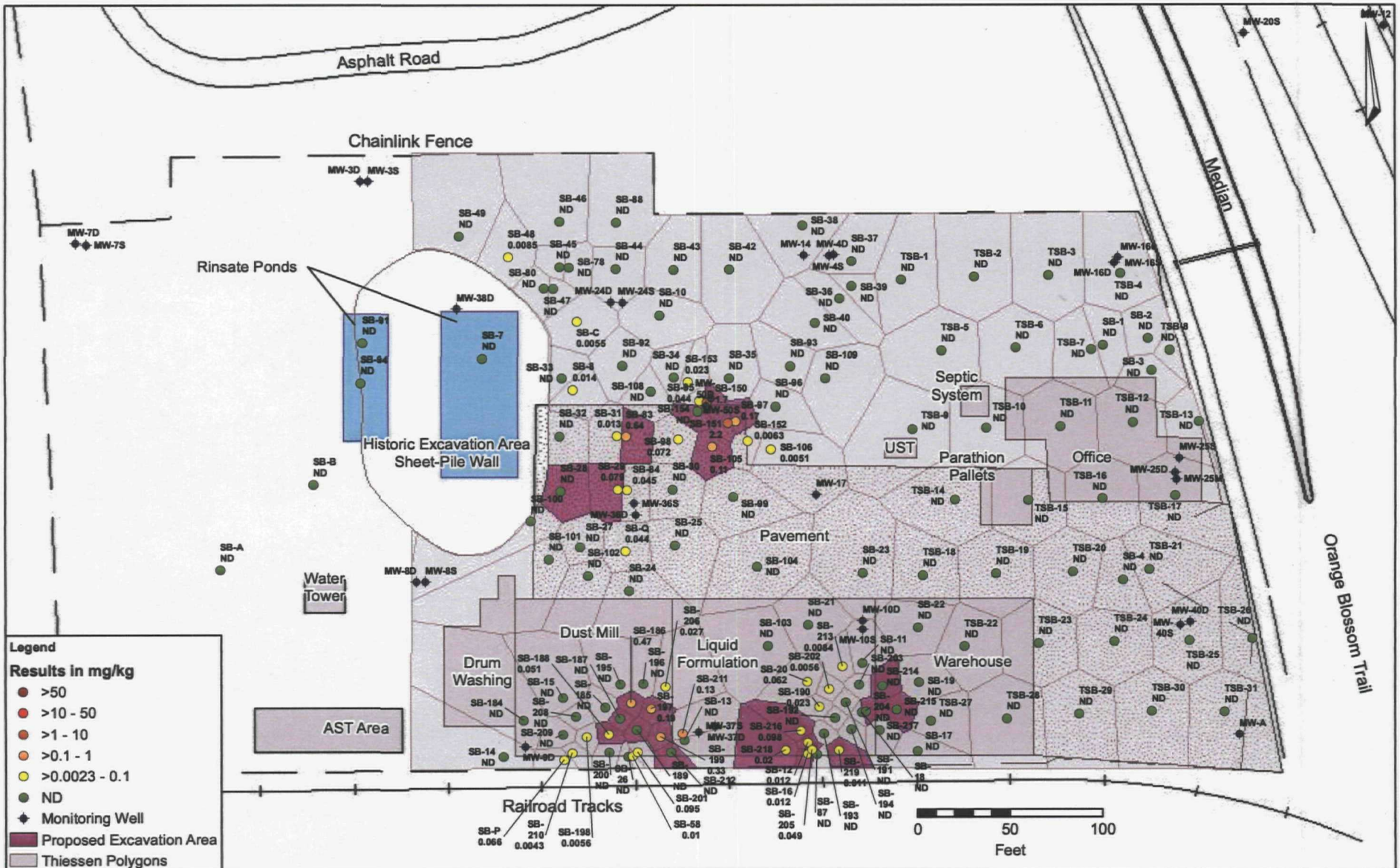

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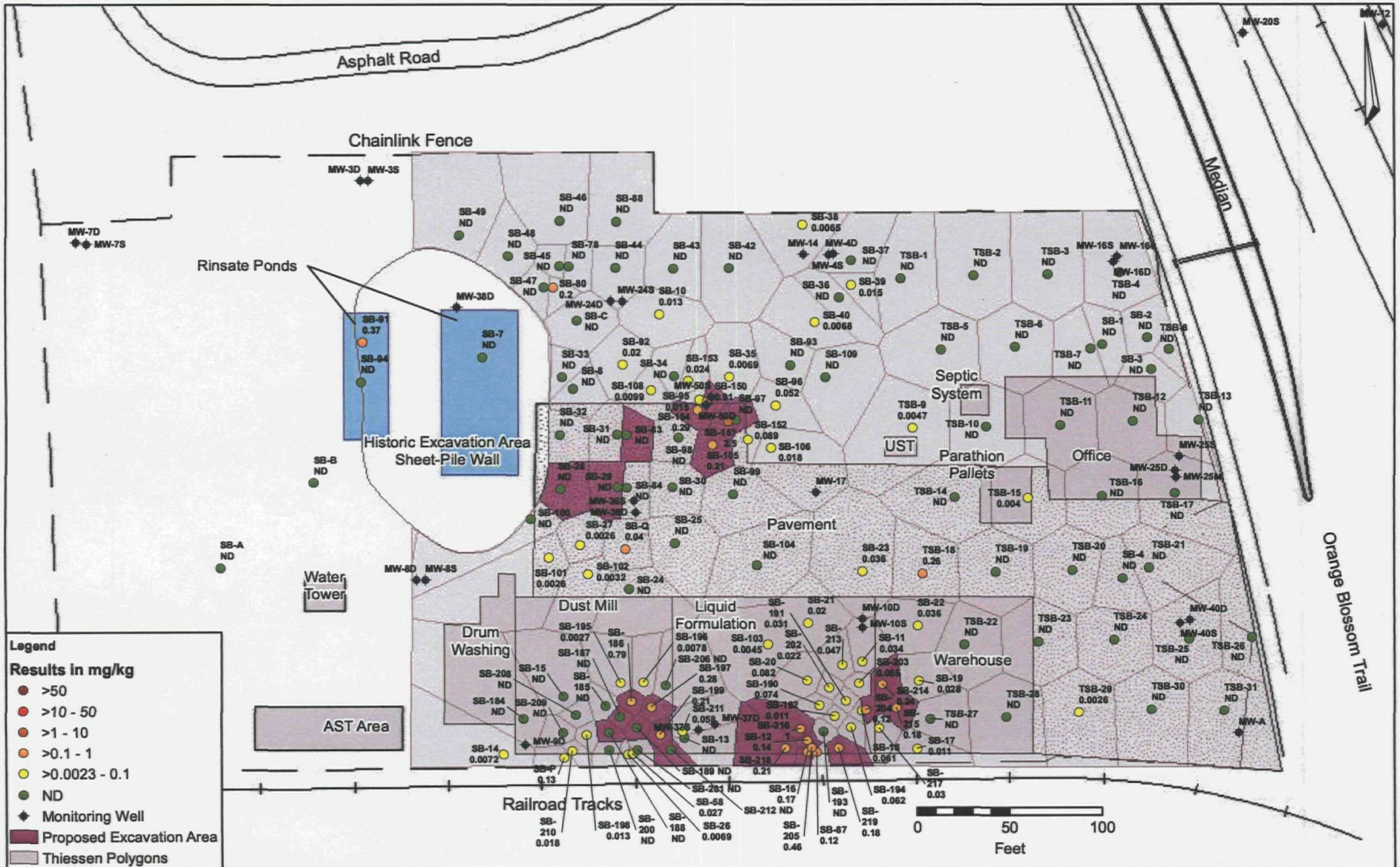
Checked By: Mark Miller	Cartography By: Patrick H. Short
Project: B0046727.0000.0000.00004	Date: 2/01/2010

Impacted Soil and Proposed Excavation Areas - alpha-BHC at 5-7 feet bgs

Orlando, Florida

Figure
A-13



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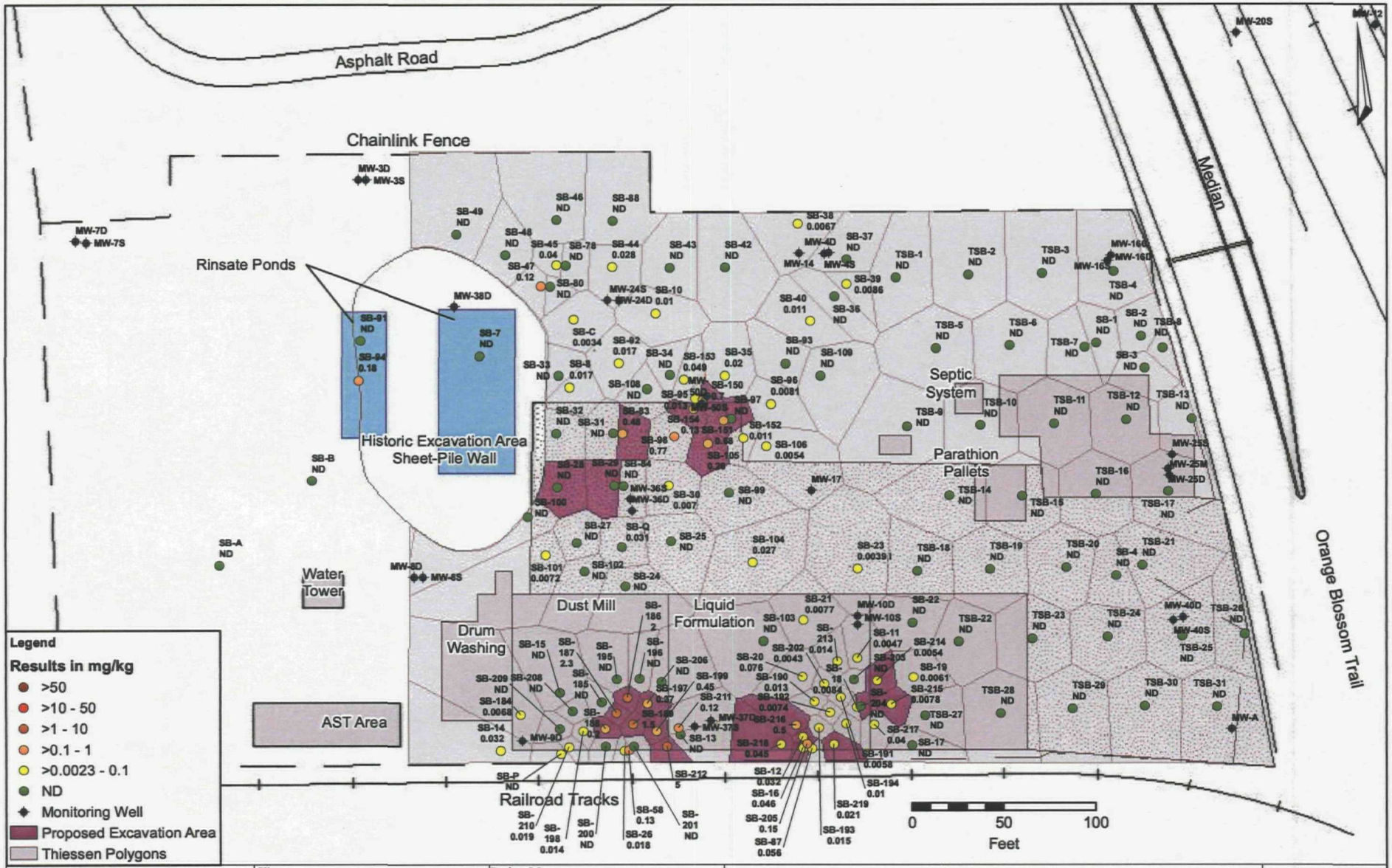
Project: B0046727.0000.0000.00004	Date: 2/01/2010

Impacted Soil and Proposed Excavation Areas - beta-BHC at 5-7 feet bgs

Orlando, Florida

Figure
A-14



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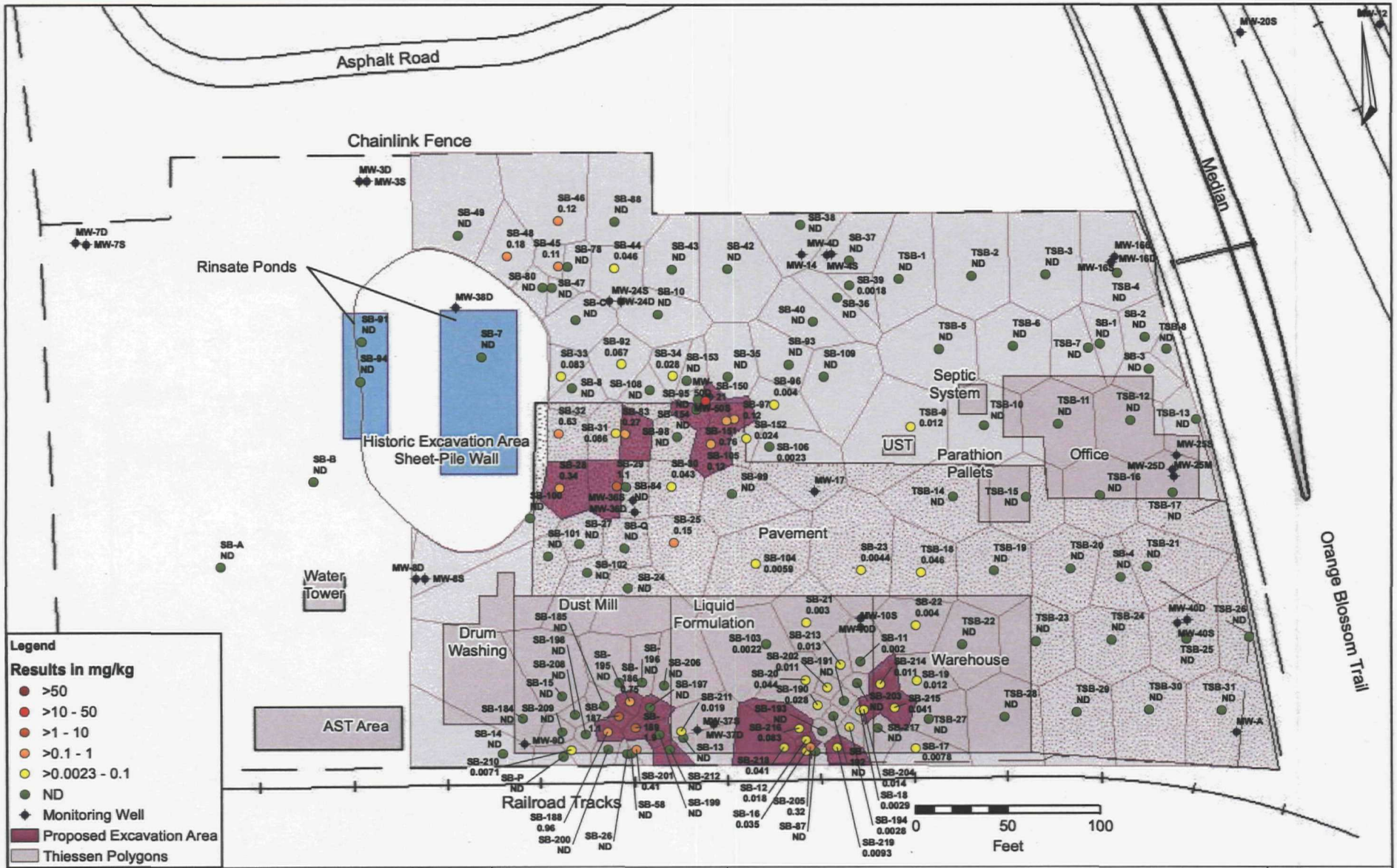
Checked By: Mark Miller	Cartography By: Patrick H. Short
Project: B0046727.0000.0000.00004	Date: 2/01/2010

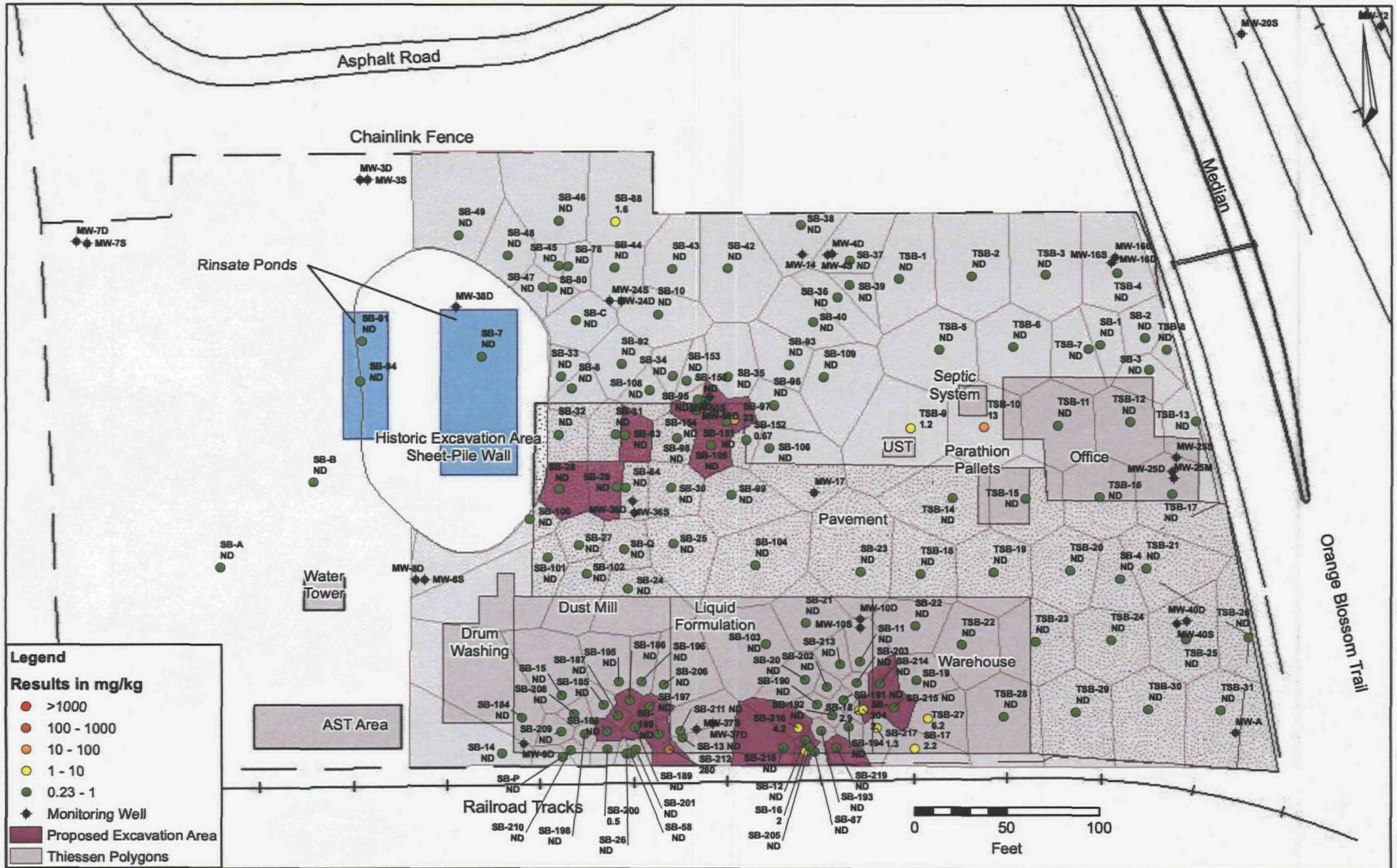
Impacted Soil and Proposed Excavation Areas - delta-BHC at 5-7 feet bgs

Orlando, Florida

Figure
A-15



ARCADIS Infrastructure, environment, facilities 3240 El Camino Real Suite 200 Irvine, California 92602 Tel: 714.730.9052 Fax: 714.730.9345 www.arcadis-us.com	Client: Chevron EMC Bellaire, Texas	Project Manager: Chevron Orlando Superfund Site	**Impacted Soil and Proposed Excavation Areas - gamma-BHC at 5-7 feet bgs** Orlando, Florida
	Checked By: Mark Miller	Cartography By: Patrick H. Short	Figure A-16
	Project: B0046727.0000.0000.00004	Date: 2/01/2010	



ARCADIS Infrastructure, environment, facilities 3240 El Camino Real Suite 200 Irvine, California 92602 Tel: 714.730.9052 Fax: 714.730.9345 www.arcadis-us.com	Client: Chevron EMC Bellaire, Texas	Project Manager: Chevron Orlando Superfund Site	**Impacted Soil and Proposed Excavation Areas - Toxaphene at 5-7 feet bgs** Orlando, Florida
	Checked By: Andrew Johnson	Cartography By: Patrick H. Short	
	Project: B0046727.0000.0000.00004	Date: 2/01/2010	

Figure
A-17

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Client: Chevron EMC Bellaire, Texas	Project Manager: Chevron Orlando Superfund Site
Checked By: Andrew Johnson	Cartography By: Patrick H. Short
Project: B0046727.0000.0000.00004	Date: 2/01/2010

Impacted Soil and Proposed Excavation Areas - Total Chlordane at 5-7 feet bgs

Orlando, Florida

Figure
A-18

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Appendix B

Area-Weighted Average Details

APPENDIX B-1
AREA-WEIGHTED AVERAGE DETAILS
α-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

α-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				10,691			6.281		
SB-105	0.0460 I	463	21	1.76	2	0%	3.140	463	34
SB-107	0.0165 K	307	5	0.42	2	0%	3.140	769	57
SB-108	3.3000	391	1,291	106.59	109	1%	3.109	1,161	86
SB-12	0.0032 U	63	0	0.02	109	1%	3.109	1,224	91
SB-132	0.1700	533	91	7.48	116	1%	3.107	1,757	130
SB-133	0.8000 K	349	279	23.02	139	1%	3.100	2,105	156
SB-134	0.2000	162	32	2.67	142	1%	3.099	2,267	168
SB-135	0.9000 K	895	806	66.49	208	2%	3.079	3,162	234
SB-150	0.0660 U	136	9	0.74	209	2%	3.079	3,298	244
SB-151	5.5000	153	844	69.65	279	3%	3.059	3,452	256
SB-152	0.1600 U	317	51	4.19	283	3%	3.058	3,769	279
SB-153	9.9000	178	1,759	145.16	428	4%	3.015	3,947	292
SB-16	0.0031 U	90	0	0.02	428	4%	3.015	4,036	299
SB-18	0.0500 I	71	4	0.29	428	4%	3.015	4,107	304
SB-186	0.0760	129	10	0.81	429	4%	3.015	4,237	314
SB-187	0.0035 U	110	0	0.03	429	4%	3.015	4,347	322
SB-191	0.0230	123	3	0.23	430	4%	3.014	4,470	331
SB-192	0.0310 U	110	3	0.28	430	4%	3.014	4,580	339
SB-193	0.0370	126	5	0.39	430	4%	3.014	4,706	349
SB-197	0.0310 U	173	5	0.44	431	4%	3.014	4,879	361
SB-203	0.0160 U	155	2	0.21	431	4%	3.014	5,034	373
SB-204	0.0330 U	44	1	0.12	431	4%	3.014	5,078	376
SB-205	0.0740	24	2	0.15	431	4%	3.014	5,102	378
SB-213	0.0031 U	349	1	0.09	431	4%	3.014	5,451	404
SB-214	0.0190	290	6	0.46	432	4%	3.014	5,741	425
SB-215	0.0031	273	1	0.07	432	4%	3.014	6,014	445
SB-216	0.4800	424	204	16.80	449	4%	3.009	6,438	477
SB-218	0.0310 U	851	26	2.18	451	4%	3.008	7,289	540
SB-219	0.0400	292	12	0.96	452	4%	3.008	7,581	562
SB-28	0.0031 U	1,045	3	0.27	452	4%	3.008	8,626	639
SB-33	0.0180 I	395	7	0.59	453	4%	3.008	9,021	668
SB-34	49.0000	315	15,444	1,274.63	1,727	16%	2.633	9,336	692
SB-35	33.0000	202	6,661	549.73	2,277	21%	2.472	9,538	707
SB-47	0.0160 K	1,017	16	1.34	2,278	21%	2.471	10,555	782
SB-81	0.0035 U	123	0	0.04	2,278	21%	2.471	10,678	791
SB-82	0.0330 K	301	10	0.82	2,279	21%	2.471	10,979	813
SB-86	0.0800 I	96	8	0.64	2,280	21%	2.471	11,075	820
SB-87	0.0940 I	101	9	0.78	2,281	21%	2.471	11,176	828
SB-89	0.0800 K	213	17	1.40	2,282	21%	2.470	11,388	844
SB-95	0.0870 I	203	18	1.46	2,283	21%	2.470	11,591	859
SB-96	0.2700	589	159	13.12	2,297	21%	2.466	12,180	902
SB-97	550.0000	181	99,546	8,215.89	10,512	98%	0.052	12,361	916
SB-98	3.0000 I	490	1,469	121.27	10,634	99%	0.017	12,851	952
SB-217	0.1600 U	380	61	5.01	10,639	100%	0.015	13,230	980
SB-C	0.1200 I	1,169	140	11.58	10,650	100%	0.012	14,400	1,067
SB-30	0.1100 I	1,313	144	11.92	10,662	100%	0.008	15,713	1,164
SB-106	0.1000 K	785	78	6.48	10,669	100%	0.006	16,497	1,222
SB-5	0.0914 K	720	66	5.42	10,674	100%	0.005	17,217	1,275
SB-136	0.0800 K	667	53	4.41	10,679	100%	0.004	17,884	1,325
SB-208	0.0310 U	184	6	0.47	10,679	100%	0.003	18,068	1,338
SB-92	0.0170 K	839	14	1.18	10,680	100%	0.003	18,907	1,400
SB-42	0.0160 K	778	12	1.03	10,681	100%	0.003	19,684	1,458
SB-93	0.0160 K	501	8	0.66	10,682	100%	0.003	20,186	1,495

APPENDIX B-1
AREA-WEIGHTED AVERAGE DETAILS
α-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

α-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-25	0.0155 K	1,630	25	2.09	10,684	100%	0.002	21,816	1,616
SB-17	0.0155 K	645	10	0.83	10,685	100%	0.002	22,461	1,664
SB-19	0.0140	638	9	0.74	10,685	100%	0.001	23,099	1,711
SB-127	0.0076 I	558	4	0.35	10,686	100%	0.001	23,657	1,752
SB-209	0.0076	256	2	0.16	10,686	100%	0.001	23,913	1,771
SB-32	0.0045 I	813	4	0.30	10,686	100%	0.001	24,726	1,832
SB-130	0.0040 U	604	2	0.20	10,686	100%	0.001	25,330	1,876
SB-99	0.0035 U	1,266	4	0.37	10,687	100%	0.001	26,596	1,970
SB-P	0.0033 U	210	1	0.06	10,687	100%	0.001	26,806	1,986
SB-109	0.0033 U	979	3	0.27	10,687	100%	0.001	27,785	2,058
SB-183	0.0033 U	434	1	0.12	10,687	100%	0.001	28,219	2,090
SB-184	0.0033 U	1,396	5	0.38	10,688	100%	0.001	29,614	2,194
SB-198	0.0033 U	160	1	0.04	10,688	100%	0.001	29,774	2,206
SB-210	0.0033 U	144	0	0.04	10,688	100%	0.001	29,918	2,216
SB-128	0.0032 U	490	2	0.13	10,688	100%	0.001	30,408	2,252
SB-129	0.0032 U	590	2	0.16	10,688	100%	0.001	30,998	2,296
SB-185	0.0032 U	217	1	0.06	10,688	100%	0.001	31,215	2,312
SB-195	0.0032 U	524	2	0.14	10,688	100%	0.001	31,739	2,351
SB-196	0.0032 U	447	1	0.12	10,688	100%	0.001	32,186	2,384
SB-190	0.0032 U	195	1	0.05	10,688	100%	0.001	32,381	2,399
SB-202	0.0032 U	157	1	0.04	10,688	100%	0.001	32,538	2,410
SB-10	0.0032 U	1,092	3	0.29	10,689	100%	0.001	33,630	2,491
SB-11	0.0032 U	565	2	0.15	10,689	100%	0.000	34,195	2,533
SB-27	0.0031 U	881	3	0.23	10,689	100%	0.000	35,077	2,598
SB-15	0.0031 U	174	1	0.04	10,689	100%	0.000	35,251	2,611
SB-22	0.0031 U	977	3	0.25	10,689	100%	0.000	36,227	2,683
SB-194	0.0031 U	173	1	0.04	10,689	100%	0.000	36,400	2,696
SB-20	0.0031 U	616	2	0.16	10,690	100%	0.000	37,016	2,742
SB-36	0.0030 U	752	2	0.19	10,690	100%	0.000	37,768	2,798
SB-4	0.0029 U	826	2	0.20	10,690	100%	0.000	38,594	2,859
TSB-22	0.0025 U	1,278	3	0.26	10,690	100%	0.000	39,873	2,954
TSB-27	0.0025 K	771	2	0.16	10,690	100%	0.000	40,643	3,011
SB-8	0.0017 K	599	1	0.09	10,691	100%	0.000	41,242	3,055
ND	0.0000	0	0	0.00	10,691	100%	0.000	41,242	3,055
ND	0.0000	0	0	0.00	10,691	100%	0.000	41,242	3,055
ND	0.0000	0	0	0.00	10,691	100%	0.000	41,242	3,055
ND	0.0000	0	0	0.00	10,691	100%	0.000	41,242	3,055
ND	0.0000	0	0	0.00	10,691	100%	0.000	41,242	3,055
ND	0.0000	0	0	0.00	10,691	100%	6.240	41,242	3,055
Total		41,242	129,529	10,691					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-2
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				4,479			0.543		
SB-105	2.1000	463	972	80.24	80	2%	0.533	463	34
SB-107	0.5400	307	166	13.66	94	2%	0.532	769	57
SB-108	8.0000	391	3,131	258.40	352	8%	0.500	1,161	86
SB-12	0.0230	63	1	0.12	352	8%	0.500	1,224	91
SB-132	0.7400	533	394	32.55	385	9%	0.496	1,757	130
SB-133	0.5000 K	349	174	14.39	399	9%	0.495	2,105	156
SB-134	7.7000	162	1,245	102.75	502	11%	0.482	2,267	168
SB-135	0.5500 K	895	492	40.63	543	12%	0.477	3,162	234
SB-137	0.4550 K	418	190	15.71	558	12%	0.475	3,580	265
SB-150	0.0400 U	136	5	0.45	559	12%	0.475	3,717	275
SB-151	15.0000	153	2,302	189.96	749	17%	0.452	3,870	287
SB-152	4.2000	317	1,332	109.90	859	19%	0.439	4,187	310
SB-153	4.1000	178	728	60.12	919	21%	0.432	4,365	323
SB-16	0.0085	90	1	0.06	919	21%	0.432	4,455	330
SB-18	0.4100	71	29	2.40	921	21%	0.431	4,526	335
SB-186	0.0020 U	129	0	0.02	921	21%	0.431	4,655	345
SB-187	0.0021 U	110	0	0.02	921	21%	0.431	4,765	353
SB-188	0.0022 U	142	0	0.03	921	21%	0.431	4,907	363
SB-189	0.0020 U	154	0	0.03	921	21%	0.431	5,062	375
SB-191	7.5000	123	923	76.16	998	22%	0.422	5,185	384
SB-192	0.2300	110	25	2.08	1,000	22%	0.422	5,294	392
SB-193	0.1700	126	21	1.77	1,001	22%	0.422	5,421	402
SB-197	0.0190 U	173	3	0.27	1,002	22%	0.422	5,593	414
SB-199	0.0022 U	164	0	0.03	1,002	22%	0.422	5,757	426
SB-203	0.6700	155	104	8.59	1,010	23%	0.421	5,912	438
SB-204	1.6000	44	70	5.81	1,016	23%	0.420	5,956	441
SB-205	1.9000	24	46	3.81	1,020	23%	0.419	5,980	443
SB-212	0.0021 U	299	1	0.05	1,020	23%	0.419	6,279	465
SB-213	0.2600	349	91	7.48	1,027	23%	0.419	6,628	491
SB-214	1.2000	290	348	28.76	1,056	24%	0.415	6,918	512
SB-215	0.8900	273	243	20.04	1,076	24%	0.413	7,191	533
SB-216	31.0000	424	13,149	1,085.23	2,162	48%	0.281	7,615	564
SB-218	0.3600	851	306	25.29	2,187	49%	0.278	8,466	627
SB-219	1.2000	292	350	28.89	2,216	49%	0.274	8,758	649
SB-28	0.0019 U	1,045	2	0.16	2,216	49%	0.274	9,803	726
SB-33	0.0600 I	395	24	1.95	2,218	50%	0.274	10,198	755
SB-34	0.2100 K	315	66	5.46	2,223	50%	0.274	10,513	779
SB-35	26.0000	202	5,248	433.12	2,656	59%	0.221	10,715	794
SB-81	0.0021 U	123	0	0.02	2,656	59%	0.221	10,838	803
SB-82	1.1000	301	331	27.31	2,684	60%	0.218	11,138	825
SB-86	1.8000	96	174	14.32	2,698	60%	0.216	11,235	832
SB-87	0.6600	101	66	5.48	2,704	60%	0.215	11,335	840
SB-89	0.4500	213	96	7.90	2,711	61%	0.214	11,548	855
SB-95	0.0280 I	203	6	0.47	2,712	61%	0.214	11,751	870
SB-96	2.1000	589	1,236	102.01	2,814	63%	0.202	12,340	914
SB-97	97.0000	181	17,556	1,448.99	4,263	95%	0.026	12,521	927
SB-98	0.5000 K	490	245	20.21	4,283	96%	0.024	13,011	964

APPENDIX B-2
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-19	0.6800	638	434	35.80	4,319	96%	0.019	13,648	1,011
SB-138	0.5000	494	247	20.38	4,339	97%	0.017	14,142	1,048
SB-136	0.4000	667	267	22.03	4,361	97%	0.014	14,809	1,097
SB-143	0.1900 I	879	167	13.78	4,375	98%	0.013	15,688	1,162
SB-101	0.1500	1,807	271	22.37	4,397	98%	0.010	17,495	1,296
SB-103	0.1000	1,790	179	14.77	4,412	99%	0.008	19,285	1,428
SB-217	0.0950 U	380	36	2.98	4,415	99%	0.008	19,664	1,457
SB-196	0.0720	447	32	2.66	4,418	99%	0.007	20,111	1,490
SB-4	0.0670	826	55	4.57	4,422	99%	0.007	20,938	1,551
TSB-15	0.0625 K	1,594	100	8.22	4,431	99%	0.006	22,531	1,669
SB-106	0.0600 K	785	47	3.89	4,435	99%	0.005	23,316	1,727
SB-99	0.0430 I	1,266	54	4.49	4,439	99%	0.005	24,582	1,821
SB-185	0.0360	217	8	0.64	4,440	99%	0.005	24,798	1,837
TSB-1	0.0320	1,723	55	4.55	4,444	99%	0.004	26,521	1,965
SB-190	0.0320	195	6	0.51	4,445	99%	0.004	26,716	1,979
SB-202	0.0320	157	5	0.42	4,445	99%	0.004	26,873	1,991
TSB-10	0.0310	1,616	50	4.13	4,449	99%	0.004	28,489	2,110
SB-130	0.0250	604	15	1.25	4,451	99%	0.003	29,093	2,155
SB-141	0.0210 I	1,025	22	1.78	4,452	99%	0.003	30,118	2,231
SB-201	0.0210 U	138	3	0.24	4,453	99%	0.003	30,257	2,241
SB-127	0.0200	558	11	0.92	4,453	99%	0.003	30,815	2,283
SB-206	0.0200 U	946	19	1.56	4,455	99%	0.003	31,761	2,353
SB-208	0.0190 U	184	3	0.29	4,455	99%	0.003	31,945	2,366
SB-209	0.0180	256	5	0.38	4,456	99%	0.003	32,201	2,385
SB-58	0.0160	113	2	0.15	4,456	99%	0.003	32,314	2,394
TSB-20	0.0125 K	1,407	18	1.45	4,457	100%	0.003	33,721	2,498
SB-92	0.0105 K	839	9	0.73	4,458	100%	0.003	34,560	2,560
SB-30	0.0100 K	1,313	13	1.08	4,459	100%	0.002	35,873	2,657
SB-38	0.0100 K	1,070	11	0.88	4,460	100%	0.002	36,943	2,736
SB-42	0.0100 K	778	8	0.64	4,461	100%	0.002	37,720	2,794
SB-93	0.0100 K	501	5	0.41	4,461	100%	0.002	38,222	2,831
SB-B	0.0100 K	31	0	0.03	4,461	100%	0.002	38,252	2,833
SB-C	0.0100 K	1,169	12	0.97	4,462	100%	0.002	39,422	2,920
SB-25	0.0095 K	1,630	15	1.28	4,463	100%	0.002	41,052	3,041
SB-14	0.0095 K	1,873	18	1.47	4,465	100%	0.002	42,925	3,180
SB-140	0.0095 K	377	4	0.30	4,465	100%	0.002	43,302	3,208
SB-142	0.0095 K	421	4	0.33	4,465	100%	0.002	43,723	3,239
SB-17	0.0095 K	645	6	0.51	4,466	100%	0.002	44,368	3,287
SB-139	0.0095 K	461	4	0.36	4,466	100%	0.002	44,829	3,321
SB-104	0.0068 I	2,055	14	1.15	4,467	100%	0.001	46,884	3,473
SB-P	0.0063 I	210	1	0.11	4,468	100%	0.001	47,094	3,488
TSB-21	0.0063 K	1,600	10	0.83	4,468	100%	0.001	48,694	3,607
TSB-9	0.0063 K	1,439	9	0.74	4,469	100%	0.001	50,133	3,714
TSB-2	0.0048	2,184	10	0.87	4,470	100%	0.001	52,317	3,875
SB-32	0.0047 I	813	4	0.32	4,470	100%	0.001	53,131	3,936
SB-40	0.0044 I	715	3	0.26	4,471	100%	0.001	53,845	3,989
SB-8	0.0033 I	599	2	0.16	4,471	100%	0.001	54,444	4,033
TSB-18	0.0025 U	1,235	3	0.25	4,471	100%	0.001	55,679	4,124

APPENDIX B-2
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-178	0.0025 U	2,795	7	0.58	4,472	100%	0.001	58,474	4,331
TSB-11	0.0025 U	1,610	4	0.33	4,472	100%	0.001	60,085	4,451
TSB-14	0.0025 K	1,465	4	0.30	4,472	100%	0.001	61,550	4,559
TSB-16	0.0025 U	1,590	4	0.33	4,473	100%	0.001	63,140	4,677
TSB-19	0.0025 U	1,609	4	0.33	4,473	100%	0.001	64,749	4,796
TSB-22	0.0025 U	1,278	3	0.26	4,473	100%	0.001	66,028	4,891
TSB-23	0.0025 K	1,593	4	0.33	4,473	100%	0.001	67,621	5,009
TSB-24	0.0025 U	1,460	4	0.30	4,474	100%	0.001	69,081	5,117
TSB-27	0.0025 K	771	2	0.16	4,474	100%	0.001	69,852	5,174
TSB-3	0.0025 U	2,133	5	0.44	4,474	100%	0.001	71,986	5,332
TSB-5	0.0025 K	1,915	5	0.40	4,475	100%	0.001	73,901	5,474
TSB-6	0.0025 K	1,635	4	0.34	4,475	100%	0.000	75,536	5,595
SB-102	0.0021 U	810	2	0.14	4,475	100%	0.000	76,346	5,655
SB-179	0.0021 U	756	2	0.13	4,475	100%	0.000	77,102	5,711
SB-184	0.0021 U	1,396	3	0.24	4,476	100%	0.000	78,497	5,815
SB-200	0.0021 U	203	0	0.04	4,476	100%	0.000	78,700	5,830
SB-210	0.0021 U	144	0	0.02	4,476	100%	0.000	78,844	5,840
SB-37	0.0021 U	1,040	2	0.18	4,476	100%	0.000	79,884	5,917
SB-39	0.0021 U	387	1	0.07	4,476	100%	0.000	80,271	5,946
SB-100	0.0020 U	1,220	2	0.20	4,476	100%	0.000	81,491	6,036
SB-109	0.0020 U	979	2	0.16	4,476	100%	0.000	82,470	6,109
SB-128	0.0020 U	490	1	0.08	4,476	100%	0.000	82,960	6,145
SB-129	0.0020 U	590	1	0.10	4,476	100%	0.000	83,550	6,189
SB-182	0.0020 U	242	0	0.04	4,476	100%	0.000	83,792	6,207
SB-183	0.0020 U	434	1	0.07	4,477	100%	0.000	84,225	6,239
SB-195	0.0020 U	524	1	0.09	4,477	100%	0.000	84,750	6,278
SB-198	0.0020 U	160	0	0.03	4,477	100%	0.000	84,910	6,290
SB-24	0.0020 U	1,649	3	0.27	4,477	100%	0.000	86,559	6,412
SB-90	0.0020 U	452	1	0.07	4,477	100%	0.000	87,011	6,445
SB-211	0.0020 U	756	2	0.12	4,477	100%	0.000	87,767	6,501
SB-10	0.0020 U	1,092	2	0.18	4,477	100%	0.000	88,859	6,582
SB-11	0.0020 U	565	1	0.09	4,477	100%	0.000	89,424	6,624
SB-27	0.0019 U	881	2	0.14	4,478	100%	0.000	90,306	6,689
SB-126	0.0019 U	727	1	0.11	4,478	100%	0.000	91,032	6,743
SB-131	0.0019 U	641	1	0.10	4,478	100%	0.000	91,674	6,791
SB-15	0.0019 U	174	0	0.03	4,478	100%	0.000	91,847	6,804
SB-180	0.0019 U	148	0	0.02	4,478	100%	0.000	91,996	6,814
SB-207	0.0019 U	724	1	0.11	4,478	100%	0.000	92,720	6,868
SB-21	0.0019 U	1,123	2	0.18	4,478	100%	0.000	93,843	6,951
SB-22	0.0019 U	977	2	0.15	4,478	100%	0.000	94,819	7,024
SB-23	0.0019 U	1,502	3	0.24	4,478	100%	0.000	96,322	7,135
SB-36	0.0019 U	752	1	0.12	4,479	100%	0.000	97,074	7,191
SB-88	0.0019 U	2,064	4	0.32	4,479	100%	0.000	99,138	7,344
SB-194	0.0019 U	173	0	0.03	4,479	100%	0.000	99,312	7,356
SB-20	0.0019 U	616	1	0.10	4,479	100%	0.000	99,927	7,402
ND	0.0000	0	0	0.00	4,479	100%	0.000	99,927	7,402
ND	0.0000	0	0	0.00	4,479	100%	0.000	99,927	7,402
ND	0.0000	0	0	0.00	4,479	100%	0.000	99,927	7,402

APPENDIX B-2
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
ND	0.0000	0	0	0.00	4,479	100%	0.543	99,927	7,402
Total		99,927	54,269	4,479					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-3
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				3,119			1.045		
SB-105	0.1700	463	79	6.50	6	0%	1.043	463	34
SB-107	0.0125 K	307	4	0.32	7	0%	1.043	463	34
SB-108	0.0650 K	391	25	2.10	9	0%	1.042	1,161	86
SB-12	0.0024 U	63	0	0.01	9	0%	1.042	1,224	91
SB-132	0.2100	533	112	9.24	18	1%	1.039	1,757	130
SB-133	0.6000 K	349	209	17.27	35	1%	1.033	2,105	156
SB-134	0.6000 K	162	97	8.01	43	1%	1.030	2,267	168
SB-135	0.7000 K	895	627	51.71	95	3%	1.013	3,162	234
SB-150	0.0500 U	136	7	0.56	96	3%	1.013	3,298	244
SB-151	0.1400 U	153	21	1.77	97	3%	1.012	3,452	256
SB-152	0.1200 U	317	38	3.14	101	3%	1.011	3,769	279
SB-153	2.4000	178	426	35.19	136	4%	0.999	3,947	292
SB-16	0.0024 U	90	0	0.02	136	4%	0.999	3,947	292
SB-18	0.0770 I	71	5	0.45	136	4%	0.999	4,107	304
SB-186	0.2000	129	26	2.14	138	4%	0.999	4,107	304
SB-187	0.0026 U	110	0	0.02	138	4%	0.998	4,347	322
SB-191	0.0670	123	8	0.68	139	4%	0.998	4,470	331
SB-192	0.0850	110	9	0.77	140	4%	0.998	4,580	339
SB-193	0.0400	126	5	0.42	140	4%	0.998	4,706	349
SB-197	0.0240 U	173	4	0.34	141	5%	0.998	4,879	361
SB-199	0.0025 U	164	0	0.03	141	5%	0.998	4,879	361
SB-204	0.0250 U	44	1	0.09	141	5%	0.998	5,042	373
SB-205	0.6400	24	16	1.28	142	5%	0.997	5,111	379
SB-214	0.0024 U	290	1	0.06	142	5%	0.997	5,401	400
SB-215	0.0023 U	273	1	0.05	142	5%	0.997	5,674	420
SB-216	0.1200 U	424	51	4.20	146	5%	0.996	6,098	452
SB-219	0.1500	292	44	3.61	150	5%	0.995	6,390	473
SB-33	0.0620	395	24	2.02	152	5%	0.994	6,784	503
SB-34	12.0000	315	3,782	312.15	464	15%	0.889	7,099	526
SB-35	0.1250 K	202	25	2.08	466	15%	0.889	7,301	541
SB-47	0.0120 K	1,017	12	1.01	467	15%	0.888	8,318	616
SB-81	0.0026 U	123	0	0.03	467	15%	0.888	8,441	625
SB-82	0.0250 K	301	8	0.62	468	15%	0.888	8,742	648
SB-86	0.0580 I	96	6	0.46	468	15%	0.888	8,838	655
SB-87	0.1100	101	11	0.91	469	15%	0.888	8,838	655
SB-89	0.0600 K	213	13	1.05	470	15%	0.887	9,152	678
SB-95	0.0135 K	203	3	0.23	471	15%	0.887	9,355	693
SB-96	0.0125 K	589	7	0.61	471	15%	0.887	9,943	737
SB-97	170.0000	181	30,769	2,539.46	3,011	97%	0.036	10,124	750
SB-98	0.6000 K	490	294	24.25	3,035	97%	0.028	10,614	786
SB-C	0.6200	1,169	725	59.84	3,095	99%	0.008	11,783	873
SB-217	0.1200 U	380	46	3.76	3,098	99%	0.007	12,163	901
SB-106	0.0750 K	785	59	4.86	3,103	99%	0.005	12,948	959
SB-99	0.0310 I	1,266	39	3.24	3,107	100%	0.004	14,213	1,053

APPENDIX B-3
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-206	0.0240 U	946	23	1.87	3,108	100%	0.004	15,160	1,123
SB-127	0.0230	558	13	1.06	3,109	100%	0.003	15,718	1,164
SB-92	0.0130 K	839	11	0.90	3,110	100%	0.003	16,557	1,226
SB-38	0.0125 K	1,070	13	1.10	3,111	100%	0.003	17,627	1,306
SB-25	0.0120 K	1,630	20	1.61	3,113	100%	0.002	17,627	1,306
SB-30	0.0120 K	1,313	16	1.30	3,114	100%	0.002	20,570	1,524
SB-42	0.0120 K	778	9	0.77	3,115	100%	0.001	21,348	1,581
SB-B	0.0120 K	31	0	0.03	3,115	100%	0.001	21,378	1,584
SB-139	0.0115 K	461	5	0.44	3,116	100%	0.001	21,378	1,584
SB-207	0.0090	724	7	0.54	3,116	100%	0.001	22,564	1,671
SB-141	0.0060 K	1,025	6	0.51	3,117	100%	0.001	23,588	1,747
SB-130	0.0030 U	604	2	0.15	3,117	100%	0.001	24,192	1,792
SB-32	0.0026 U	813	2	0.17	3,117	100%	0.001	25,006	1,852
SB-103	0.0025 U	1,790	4	0.37	3,117	100%	0.001	26,795	1,985
SB-211	0.0025 U	756	2	0.16	3,118	100%	0.001	27,551	2,041
SB-10	0.0024 U	1,092	3	0.22	3,118	100%	0.000	28,643	2,122
SB-19	0.0024 U	638	2	0.13	3,118	100%	0.000	29,281	2,169
SB-104	0.0024 U	2,055	5	0.41	3,118	100%	0.000	31,336	2,321
SB-128	0.0024 U	490	1	0.10	3,118	100%	0.000	31,826	2,357
SB-129	0.0024 U	590	1	0.12	3,119	100%	0.000	31,826	2,357
SB-185	0.0024 U	217	1	0.04	3,119	100%	0.000	32,416	2,401
SB-195	0.0024 U	524	1	0.10	3,119	100%	0.000	32,633	2,417
SB-196	0.0024 U	447	1	0.09	3,119	100%	0.000	33,157	2,456
SB-190	0.0024 U	195	0	0.04	3,119	100%	0.000	33,604	2,489
SB-202	0.0024 U	157	0	0.03	3,119	100%	0.000	33,956	2,515
SB-20	0.0024 U	616	1	0.12	3,119	100%	0.000	34,572	2,561
SB-194	0.0023 U	173	0	0.03	3,119	100%	0.000	34,572	2,561
SB-4	0.0022 U	826	2	0.15	3,119	100%	0.000	35,571	2,635
SB-8	0.0013 K	599	1	0.07	3,119	100%	0.000	35,571	2,635
ND	0.0000	0	0	0.00	3,119	100%	0.000	36,170	2,679
ND	0.0000	0	0	0.00	3,119	100%	0.000	36,170	2,679
ND	0.0000	0	0	0.00	3,119	100%	0.000	36,170	2,679
ND	0.0000	0	0	0.00	3,119	100%	0.000	36,170	2,679
ND	0.0000	0	0	0.00	3,119	100%	0.000	36,170	2,679
ND	0.0000	0	0	0.00	3,119	100%		36,170	2,679
Total		36,170	37,793	3,119					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-4
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				4,709			1.092		
SB-105	0.4400	463	204	16.82	17	0%	1.089	463	34
SB-107	0.0035 K	307	1	0.09	17	0%	1.089	770	57
SB-108	0.0180 K	392	7	0.58	17	0%	1.088	1,161	86
SB-12	0.0007 U	63	0	0.00	17	0%	1.088	1,224	91
SB-132	0.0990	533	53	4.36	22	0%	1.087	1,757	130
SB-133	0.1600 K	349	56	4.61	26	1%	1.086	2,106	156
SB-134	0.3100	162	50	4.14	31	1%	1.085	2,268	168
SB-135	0.1850 K	896	166	13.67	44	1%	1.082	3,164	234
SB-137	0.1600 K	419	67	5.53	50	1%	1.081	3,582	265
SB-150	0.0140 U	137	2	0.16	50	1%	1.081	3,719	275
SB-151	0.0620	154	10	0.79	51	1%	1.081	3,872	287
SB-152	0.0320 U	317	10	0.84	52	1%	1.080	4,189	310
SB-153	0.0360 U	178	6	0.53	52	1%	1.080	4,367	323
SB-16	0.0007 U	90	0	0.00	52	1%	1.080	4,457	330
SB-18	0.1200	71	9	0.70	53	1%	1.080	4,528	335
SB-186	0.0660	130	9	0.71	54	1%	1.080	4,657	345
SB-187	0.0007 U	110	0	0.01	54	1%	1.080	4,768	353
SB-189	0.0007 U	154	0	0.01	54	1%	1.080	4,922	365
SB-191	0.0240	123	3	0.24	54	1%	1.080	5,045	374
SB-192	0.0900	110	10	0.81	55	1%	1.080	5,155	382
SB-193	0.0500	126	6	0.52	55	1%	1.080	5,281	391
SB-197	0.0065 U	173	1	0.09	55	1%	1.080	5,454	404
SB-203	0.0032 U	155	0	0.04	55	1%	1.080	5,609	416
SB-204	0.0067 U	44	0	0.02	55	1%	1.080	5,653	419
SB-205	0.1400	24	3	0.28	56	1%	1.080	5,678	421
SB-213	0.0006 U	349	0	0.02	56	1%	1.080	6,026	446
SB-214	0.0007 U	290	0	0.02	56	1%	1.080	6,317	468
SB-215	0.0100	273	3	0.23	56	1%	1.079	6,590	488
SB-216	1.0000	424	424	35.02	91	2%	1.071	7,014	520
SB-218	0.2800	852	238	19.68	111	2%	1.067	7,866	583
SB-219	0.0007 U	292	0	0.02	111	2%	1.067	8,158	604
SB-33	0.0530	395	21	1.73	112	2%	1.066	8,553	634
SB-34	14.0000	315	4,415	364.36	477	10%	0.982	8,868	657
SB-35	0.0335 K	202	7	0.56	477	10%	0.982	9,070	672
SB-81	0.0007 U	123	0	0.01	477	10%	0.982	9,193	681
SB-82	0.0070 K	301	2	0.17	477	10%	0.982	9,494	703
SB-86	0.0032 K	96	0	0.03	477	10%	0.982	9,590	710
SB-87	0.1400	101	14	1.16	479	10%	0.981	9,691	718
SB-89	0.0170 K	213	4	0.30	479	10%	0.981	9,904	734
SB-95	0.0036 K	203	1	0.06	479	10%	0.981	10,107	749
SB-96	0.0034 K	589	2	0.17	479	10%	0.981	10,696	792
SB-97	280.0000	181	50,703	4,184.74	4,664	99%	0.010	10,877	806
SB-98	0.1700 K	490	83	6.88	4,671	99%	0.009	11,367	842
TSB-10	0.0970	1,617	157	12.94	4,684	99%	0.006	12,984	962

APPENDIX B-4
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-138	0.0700	494	35	2.85	4,686	100%	0.005	13,478	998
TSB-15	0.0613 K	1,595	98	8.06	4,695	100%	0.003	15,072	1,116
SB-130	0.0480	604	29	2.39	4,697	100%	0.003	15,677	1,161
SB-217	0.0320 U	380	12	1.00	4,698	100%	0.003	16,056	1,189
SB-106	0.0205 K	785	16	1.33	4,699	100%	0.002	16,841	1,248
SB-136	0.0160 K	668	11	0.88	4,700	100%	0.002	17,509	1,297
TSB-20	0.0125 K	1,407	18	1.45	4,702	100%	0.002	18,916	1,401
SB-206	0.0066 U	947	6	0.52	4,702	100%	0.002	19,863	1,471
TSB-21	0.0063 K	1,601	10	0.83	4,703	100%	0.001	21,464	1,590
TSB-9	0.0063 K	1,440	9	0.74	4,704	100%	0.001	22,904	1,697
SB-127	0.0062	558	3	0.29	4,704	100%	0.001	23,462	1,738
SB-92	0.0035 K	839	3	0.24	4,704	100%	0.001	24,302	1,800
SB-38	0.0034 K	1,071	4	0.30	4,705	100%	0.001	25,372	1,879
SB-42	0.0034 K	778	3	0.22	4,705	100%	0.001	26,150	1,937
SB-B	0.0034 K	31	0	0.01	4,705	100%	0.001	26,181	1,939
SB-30	0.0033 K	1,314	4	0.36	4,705	100%	0.001	27,495	2,037
SB-C	0.0033 K	1,170	4	0.32	4,705	100%	0.001	28,665	2,123
SB-17	0.0032 K	645	2	0.17	4,706	100%	0.001	29,310	2,171
SB-140	0.0032 K	377	1	0.10	4,706	100%	0.001	29,687	2,199
SB-139	0.0032 K	461	1	0.12	4,706	100%	0.001	30,148	2,233
TSB-11	0.0025 U	1,611	4	0.33	4,706	100%	0.001	31,759	2,353
TSB-14	0.0025 K	1,466	4	0.30	4,706	100%	0.001	33,225	2,461
TSB-16	0.0025 U	1,591	4	0.33	4,707	100%	0.000	34,816	2,579
TSB-23	0.0025 U	1,594	4	0.33	4,707	100%	0.000	36,410	2,697
TSB-24	0.0025 U	1,461	4	0.30	4,707	100%	0.000	37,871	2,805
TSB-27	0.0025 K	771	2	0.16	4,708	100%	0.000	38,642	2,862
TSB-5	0.0025 K	1,916	5	0.40	4,708	100%	0.000	40,559	3,004
TSB-6	0.0025 K	1,636	4	0.34	4,708	100%	0.000	42,194	3,126
SB-4	0.0011 I	827	1	0.08	4,708	100%	0.000	43,021	3,187
SB-99	0.0007 U	1,266	1	0.08	4,708	100%	0.000	44,288	3,281
SB-211	0.0007 U	756	1	0.04	4,708	100%	0.000	45,044	3,337
SB-195	0.0007 U	524	0	0.03	4,709	100%	0.000	45,568	3,375
SB-10	0.0007 U	1,093	1	0.06	4,709	100%	0.000	46,661	3,456
SB-11	0.0007 U	566	0	0.03	4,709	100%	0.000	47,226	3,498
SB-185	0.0007 U	217	0	0.01	4,709	100%	0.000	47,443	3,514
SB-196	0.0007 U	447	0	0.02	4,709	100%	0.000	47,890	3,547
SB-190	0.0007 U	195	0	0.01	4,709	100%	0.000	48,085	3,562
SB-19	0.0007 U	638	0	0.03	4,709	100%	0.000	48,723	3,609
SB-129	0.0007 U	591	0	0.03	4,709	100%	0.000	49,314	3,653
SB-202	0.0007 U	158	0	0.01	4,709	100%	0.000	49,471	3,665
SB-20	0.0007 U	616	0	0.03	4,709	100%	0.000	50,087	3,710
SB-131	0.0006 U	642	0	0.03	4,709	100%	0.000	50,729	3,758
SB-194	0.0006 U	173	0	0.01	4,709	100%	0.000	50,902	3,771
SB-207	0.0006 U	724	0	0.04	4,709	100%	0.000	51,627	3,824
SB-8	0.0004 K	599	0	0.02	4,709	100%	0.000	52,225	3,869

APPENDIX B-4
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
ND	0.0000	0	0	0.00	4,709	100%	0.000	52,225	3,869
ND	0.0000	0	0	0.00	4,709	100%	0.000	52,225	3,869
ND	0.0000	0	0	0.00	4,709	100%	0.000	52,225	3,869
ND	0.0000	0	0	0.00	4,709	100%	0.000	52,225	3,869
ND	0.0000	0	0	0.00	4,709	100%	0.000	52,225	3,869
ND	0.0000	0	0	0.00	4,709	100%	0.000	52,225	3,869
ND	0.0000	0	0	0.00	4,709	100%	0.000	52,225	3,869
ND	0.0000	0	0	0.00	4,709	100%		52,225	3,869
Total		52,225	57,053	4,709					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-5
AREA-WEIGHTED AVERAGE DETAILS
TOXAPHENE BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Toxaphene 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No Excavation				223,632			36.97		
SB-105	1.30 K	463	602	49.67	50	0%	36.96	463	34
SB-107	6.00 I	307	1,839	151.79	201	0%	36.94	769	57
SB-108	7.00 K	391	2,739	226.10	428	0%	36.90	1,161	86
SB-12	0.25 U	63	16	1.31	429	0%	36.90	1,224	91
SB-132	26.00	533	13,857	1,143.70	1,573	1%	36.71	1,757	130
SB-133	60.00 K	349	20,919	1,726.52	3,299	1%	36.42	2,105	156
SB-134	79.00	162	12,773	1,054.21	4,353	2%	36.25	2,267	168
SB-135	70.00 K	895	62,654	5,171.12	9,524	4%	35.40	3,162	234
SB-137	60.00 K	418	25,099	2,071.52	11,596	5%	35.05	3,580	265
SB-150	5.20 U	136	710	58.57	11,655	5%	35.04	3,717	275
SB-151	2,700.00	153	414,277	34,191.92	45,846	21%	29.39	3,870	287
SB-152	5.00 U	317	1,585	130.83	45,977	21%	29.37	4,187	310
SB-153	14.00 U	178	2,487	205.28	46,183	21%	29.34	4,365	323
SB-16	1.50	90	135	11.11	46,194	21%	29.33	4,455	330
SB-18	57.00	71	4,049	334.21	46,528	21%	29.28	4,526	335
SB-187	11.00	110	1,212	100.03	46,628	21%	29.26	4,636	343
SB-188	0.28 U	142	40	3.28	46,631	21%	29.26	4,778	354
SB-189	0.26 U	154	40	3.31	46,634	21%	29.26	4,932	365
SB-191	0.25 U	123	31	2.54	46,637	21%	29.26	5,055	374
SB-192	31.00	110	3,397	280.34	46,917	21%	29.21	5,165	383
SB-193	2.70	126	341	28.16	46,946	21%	29.21	5,291	392
SB-197	2.50 U	173	431	35.60	46,981	21%	29.20	5,464	405
SB-199	0.28 U	164	46	3.78	46,985	21%	29.20	5,627	417
SB-204	2.60 U	44	114	9.45	46,994	21%	29.20	5,671	420
SB-205	2.60 U	24	63	5.22	47,000	21%	29.20	5,696	422
SB-212	1.70	299	508	41.90	47,041	21%	29.19	5,994	444
SB-215	0.24 U	273	65	5.40	47,047	21%	29.19	6,267	464
SB-216	1,600.00	424	678,652	56,011.89	103,059	46%	19.93	6,691	496
SB-218	2.50 U	851	2,128	175.61	103,234	46%	19.90	7,542	559
SB-219	0.25 U	292	73	6.02	103,240	46%	19.90	7,834	580
SB-33	0.26 K	395	103	8.47	103,249	46%	19.90	8,229	610
SB-34	380.00	315	119,767	9,884.86	113,134	51%	18.27	8,544	633
SB-35	13.00 K	202	2,624	216.56	113,350	51%	18.23	8,746	648
SB-81	0.27 U	123	33	2.74	113,353	51%	18.23	8,869	657
SB-82	2.60 K	301	782	64.54	113,418	51%	18.22	9,169	679
SB-86	1.20 K	96	116	9.55	113,427	51%	18.22	9,266	686
SB-87	1.30 K	101	131	10.79	113,438	51%	18.22	9,366	694
SB-89	400.00	213	85,092	7,022.98	120,461	54%	17.06	9,579	710
SB-95	1.40 K	203	284	23.45	120,484	54%	17.05	9,782	725
SB-96	1.30 K	589	765	63.15	120,547	54%	17.04	10,371	768
SB-97	5,700.00	181	1,031,654	85,146.55	205,694	92%	2.97	10,552	782
SB-98	65.00 K	490	31,835	2,627.51	208,322	93%	2.53	11,041	818
TSB-10	30.00	1,616	48,481	4,001.33	212,323	95%	1.87	12,658	938
SB-127	25.00	558	13,948	1,151.20	213,474	95%	1.68	13,215	979

APPENDIX B-5
AREA-WEIGHTED AVERAGE DETAILS
TOXAPHENE BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Toxaphene 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
TSB-27	22.00	771	16,960	1,399.80	214,874	96%	1.45	13,986	1,036
SB-136	19.00 I	667	12,677	1,046.28	215,920	97%	1.27	14,654	1,085
TSB-9	14.00	1,439	20,146	1,662.73	217,583	97%	1.00	16,093	1,192
SB-217	12.00 U	380	4,555	375.98	217,959	97%	0.94	16,472	1,220
SB-42	12.00	778	9,332	770.21	218,729	98%	0.81	17,250	1,278
SB-106	8.00 K	785	6,277	518.04	219,247	98%	0.72	18,034	1,336
SB-17	6.50 I	645	4,192	345.99	219,593	98%	0.67	18,679	1,384
TSB-15	6.25 K	1,594	9,962	822.21	220,415	99%	0.53	20,273	1,502
SB-143	6.00 K	879	5,272	435.13	220,850	99%	0.46	21,152	1,567
SB-58	5.90	113	667	55.07	220,906	99%	0.45	21,265	1,575
SB-38	3.70 I	1,070	3,959	326.78	221,232	99%	0.40	22,335	1,654
SB-142	3.20 I	421	1,347	111.20	221,344	99%	0.38	22,756	1,686
SB-198	3.00	160	480	39.63	221,383	99%	0.37	22,916	1,698
SB-190	2.90	195	565	46.63	221,430	99%	0.36	23,111	1,712
SB-201	2.70 U	138	373	30.80	221,461	99%	0.36	23,249	1,722
SB-208	2.40 U	184	441	36.39	221,497	99%	0.35	23,433	1,736
SB-101	2.30	1,807	4,156	343.02	221,840	99%	0.30	25,240	1,870
SB-4	1.80	826	1,487	122.75	221,963	99%	0.28	26,066	1,931
SB-92	1.35 K	839	1,133	93.48	222,056	99%	0.26	26,905	1,993
SB-93	1.30 K	501	652	53.79	222,110	99%	0.25	27,407	2,030
SB-B	1.30 K	31	40	3.28	222,113	99%	0.25	27,437	2,032
SB-C	1.25 K	1,169	1,462	120.64	222,234	99%	0.23	28,607	2,119
TSB-20	1.25 K	1,407	1,758	145.12	222,379	99%	0.21	30,013	2,223
SB-138	1.20 K	494	592	48.90	222,428	99%	0.20	30,507	2,260
SB-8	1.20	599	718	59.28	222,487	99%	0.19	31,106	2,304
SB-140	1.20 K	377	452	37.33	222,525	100%	0.18	31,482	2,332
SB-139	1.20 K	461	553	45.66	222,570	100%	0.18	31,943	2,366
SB-37	0.78 I	1,040	811	66.94	222,637	100%	0.16	32,983	2,443
SB-200	0.75	203	152	12.57	222,650	100%	0.16	33,186	2,458
SB-210	0.63	144	91	7.47	222,657	100%	0.16	33,330	2,469
TSB-21	0.63	1,600	1,000	82.55	222,740	100%	0.15	34,930	2,587
TSB-25	0.63 K	1,329	831	68.55	222,808	100%	0.14	36,259	2,686
SB-141	0.60 K	1,025	615	50.76	222,859	100%	0.13	37,284	2,762
SB-194	0.43	173	74	6.14	222,865	100%	0.13	37,457	2,775
SB-130	0.32 U	604	193	15.95	222,881	100%	0.12	38,061	2,819
SB-178	0.32 U	2,795	894	73.82	222,955	100%	0.11	40,856	3,026
SB-40	0.28 I	715	200	16.52	222,971	100%	0.11	41,571	3,079
SB-102	0.27 U	810	219	18.06	222,990	100%	0.11	42,381	3,139
SB-32	0.27 U	813	220	18.13	223,008	100%	0.10	43,195	3,200
SB-179	0.27 U	756	204	16.84	223,025	100%	0.10	43,951	3,256
SB-39	0.27 U	387	105	8.63	223,033	100%	0.10	44,338	3,284
SB-P	0.26 U	210	55	4.51	223,038	100%	0.10	44,548	3,300
SB-100	0.26 U	1,220	317	26.17	223,064	100%	0.09	45,768	3,390
SB-109	0.26 U	979	255	21.01	223,085	100%	0.09	46,747	3,463
SB-209	0.26 U	256	67	5.50	223,090	100%	0.09	47,003	3,482

APPENDIX B-5
AREA-WEIGHTED AVERAGE DETAILS
TOXAPHENE BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Toxaphene 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-211	0.26 U	756	197	16.22	223,107	100%	0.09	47,759	3,538
SB-10	0.25 U	1,092	276	22.80	223,129	100%	0.08	48,851	3,619
SB-19	0.25 U	638	159	13.16	223,143	100%	0.08	49,488	3,666
SB-27	0.25 U	881	220	18.19	223,161	100%	0.08	50,370	3,731
TSB-18	0.25 U	1,235	309	25.49	223,186	100%	0.07	51,605	3,823
SB-126	0.25 U	727	182	14.99	223,201	100%	0.07	52,332	3,876
SB-128	0.25 U	490	122	10.11	223,211	100%	0.07	52,822	3,913
SB-129	0.25 U	590	148	12.18	223,223	100%	0.07	53,412	3,956
SB-185	0.25 U	217	54	4.47	223,228	100%	0.07	53,628	3,972
SB-90	0.25 U	452	113	9.33	223,237	100%	0.07	54,080	4,006
TSB-11	0.25 U	1,610	403	33.23	223,271	100%	0.06	55,691	4,125
TSB-14	0.25 K	1,465	366	30.22	223,301	100%	0.05	57,156	4,234
TSB-16	0.25 U	1,590	398	32.81	223,334	100%	0.05	58,746	4,352
TSB-19	0.25 U	1,609	402	33.21	223,367	100%	0.04	60,355	4,471
TSB-22	0.25 U	1,278	320	26.37	223,393	100%	0.04	61,634	4,565
TSB-23	0.25 U	1,593	398	32.87	223,426	100%	0.03	63,227	4,683
TSB-24	0.25 U	1,460	365	30.13	223,456	100%	0.03	64,687	4,792
TSB-28	0.25 U	1,910	477	39.41	223,496	100%	0.02	66,597	4,933
TSB-5	0.25 K	1,915	479	39.52	223,535	100%	0.02	68,512	5,075
TSB-6	0.25 K	1,635	409	33.73	223,569	100%	0.01	70,147	5,196
SB-202	0.25 U	157	39	3.25	223,572	100%	0.01	70,305	5,208
SB-20	0.25 U	616	154	12.70	223,585	100%	0.01	70,920	5,253
SB-131	0.24 U	641	154	12.70	223,597	100%	0.01	71,562	5,301
SB-22	0.24 U	977	234	19.34	223,617	100%	0.00	72,538	5,373
SB-36	0.24 U	752	181	14.90	223,632	100%	0.00	73,291	5,429
ND	0.00	0	0	0.00	223,632	100%	0.00	73,291	5,429
ND	0.00	0	0	0.00	223,632	100%	0.00	73,291	5,429
ND	0.00	0	0	0.00	223,632	100%	0.00	73,291	5,429
ND	0.00	0	0	0.00	223,632	100%	0.00	73,291	5,429
ND	0.00	0	0	0.00	223,632	100%	36.97	73,291	5,429
ND	0.00	0	0	0.00	223,632	100%		73,291	5,429
Total		73,291	2,709,570	223,632					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-6
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No Excavation				319,542			36.41		
SB-105	13.700	463	6,342	523	523	0%	36.35	463	34
SB-107	10.000	307	3,065	253	776	0%	36.32	769	57.0
SB-108	36.000	391	14,089	1,163	1,939	1%	36.19	1,161	86
SB-12	0.480	65	31	3	1,942	1%	36.19	1,226	91
SB-132	2.600	533	1,386	114	2,056	1%	36.18	1,759	130
SB-133	480.000	349	167,352	13,812	15,868	5%	34.60	2,108	156
SB-134	20.000	162	3,234	267	16,135	5%	34.57	2,269	168
SB-135	59.000	895	52,809	4,359	20,494	6%	34.07	3,165	234
SB-137	6,100.000	418	2,551,802	210,610	231,104	72%	10.08	3,583	265
SB-150	8.000	136	1,092	90	231,194	72%	10.07	3,719	276
SB-151	0.640	153	98	8	231,203	72%	10.07	3,873	287
SB-152	99.000	317	31,386	2,590	233,793	73%	9.77	4,190	310
SB-153	100.000	178	17,765	1,466	235,259	74%	9.60	4,367	324
SB-16	0.570	99	56	5	235,264	74%	9.60	4,466	331
SB-18	15.100	71	1,073	89	235,352	74%	9.59	4,537	336
SB-186	1.800	129	233	19	235,372	74%	9.59	4,667	346
SB-187	2.700	110	297	25	235,396	74%	9.59	4,777	354
SB-188	0.079	142	11	1	235,397	74%	9.59	4,919	364
SB-189	0.023	154	4	0	235,397	74%	9.59	5,073	376
SB-191	0.058	123	7	1	235,398	74%	9.59	5,196	385
SB-192	5.800	110	635	52	235,450	74%	9.58	5,306	393
SB-193	0.270	108	29	2	235,453	74%	9.58	5,414	401
SB-197	2.400	173	414	34	235,487	74%	9.58	5,587	414
SB-199	0.026	164	4	0	235,487	74%	9.58	5,750	426
SB-212	0.330	299	99	8	235,496	74%	9.58	6,049	448
SB-213	0.390	356	139	11	235,507	74%	9.58	6,405	474
SB-215	0.016	273	4	0	235,507	74%	9.58	6,678	495
SB-216	87.000	420	36,527	3,015	238,522	75%	9.23	7,097	526
SB-218	3.700	853	3,156	260	238,783	75%	9.20	7,950	589
SB-219	0.150	292	44	4	238,786	75%	9.20	8,242	611
SB-28	0.098	1,045	102	8	238,795	75%	9.20	9,287	688
SB-33	0.390	395	154	13	238,807	75%	9.20	9,682	717
SB-34	69.000	315	21,747	1,795	240,602	75%	8.99	9,997	741
SB-35	2,800.000	202	565,144	46,644	287,246	90%	3.68	10,199	755
SB-47	7.000	1,017	7,118	588	287,833	90%	3.61	11,216	831
SB-82	17.800	301	5,354	442	288,275	90%	3.56	11,517	853
SB-86	0.870	96	84	7	288,282	90%	3.56	11,613	860
SB-89	96.000	213	20,422	1,685	289,968	91%	3.37	11,826	876
SB-95	14.600	203	2,963	245	290,212	91%	3.34	12,029	891
SB-96	11.400	589	6,710	554	290,766	91%	3.28	12,618	935
SB-97	0.850	181	154	13	290,779	91%	3.28	12,799	948
SB-98	410.000	490	200,810	16,574	307,352	96%	1.39	13,288	984
SB-C	22.000	1,169	25,726	2,123	309,476	97%	1.15	14,458	1,071
SB-42	16.500	778	12,832	1,059	310,535	97.2%	1.03	15,235	1,129

APPENDIX B-6
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
TSB-9	14.800	1,439	21,297	1,758	312,292	98%	0.83	16,674	1,235
SB-B	14.000	31	428	35	312,328	97.7%	0.82	16,705	1,237
SB-131	12.400	641	7,952	656	312,984	98%	0.75	17,346	1,285
SB-130	11.600	604	7,006	578	313,562	98%	0.68	17,950	1,330
SB-136	8.700	667	5,805	479	314,041	98%	0.63	18,617	1,379
SB-127	7.100	558	3,961	327	314,368	98%	0.59	19,175	1,420
TSB-27	6.300	771	4,857	401	314,769	99%	0.54	19,946	1,478
SB-14	4.800	1,873	8,992	742	315,511	99%	0.46	21,819	1,616
SB-128	4.600	490	2,254	186	315,697	99%	0.44	22,309	1,653
SB-138	4.200	494	2,074	171	315,868	99%	0.42	22,803	1,689
SB-48	4.100	1,738	7,128	588	316,457	99.0%	0.35	24,542	1,818
SB-106	3.600	785	2,824	233	316,690	99%	0.33	25,326	1,876
SB-38	2.800	1,070	2,996	247	316,937	99%	0.30	26,396	1,955
SB-30	2.600	1,313	3,414	282	317,219	99%	0.26	27,709	2,053
SB-93	2.600	501	1,303	108	317,326	99.3%	0.25	28,211	2,090
SB-92	2.200	839	1,846	152	317,479	99%	0.24	29,050	2,152
SB-17	2.080	645	1,341	111	317,589	99%	0.22	29,695	2,200
SB-129	1.730	590	1,021	84	317,674	99%	0.21	30,285	2,243
SB-198	1.400	160	224	18	317,692	99%	0.21	30,445	2,255
SB-209	1.400	256	359	30	317,722	99%	0.21	30,701	2,274
SB-5	1.310	720	943	78	317,800	99.5%	0.20	31,420	2,327
SB-206	1.300	946	1,230	102	317,901	99%	0.19	32,367	2,398
SB-201	1.200	138	166	14	317,915	99%	0.19	32,505	2,408
SB-143	1.110	879	975	80	317,995	100%	0.18	33,384	2,473
TSB-11	1.000	1,610	1,610	133	318,128	100%	0.16	34,994	2,592
SB-58	0.990	113	112	9	318,137	99.6%	0.16	35,107	2,601
TSB-1	0.980	1,723	1,688	139	318,277	100%	0.14	36,830	2,728
SB-217	0.860	380	326	27	318,304	100%	0.14	37,210	2,756
SB-126	0.790	727	574	47	318,351	100%	0.14	37,937	2,810
TSB-28	0.740	1,910	1,413	117	318,468	100%	0.12	39,846	2,952
TSB-17	0.590	2,127	1,255	104	318,571	100%	0.11	41,973	3,109
SB-208	0.580	184	107	9	318,580	100%	0.11	42,157	3,123
SB-139	0.570	461	263	22	318,602	100%	0.11	42,618	3,157
SB-20	0.550	616	339	28	318,630	100%	0.10	43,233	3,202
SB-102	0.540	810	438	36	318,666	100%	0.10	44,044	3,262
TSB-29	0.530	1,946	1,031	85	318,751	100%	0.09	45,990	3,407
SB-36	0.480	752	361	30	318,781	100%	0.09	46,742	3,462
SB-140	0.450	377	170	14	318,795	100%	0.09	47,119	3,490
SB-190	0.450	195	88	7	318,802	100%	0.08	47,314	3,505
TSB-25	0.440	1,329	585	48	318,850	100%	0.08	48,643	3,603
TSB-2	0.430	2,184	939	78	318,928	100%	0.07	50,827	3,765
TSB-22	0.400	1,278	511	42	318,970	100%	0.07	52,105	3,860
SB-99	0.390	1,266	494	41	319,011	99.8%	0.06	53,371	3,953
TSB-6	0.370	1,635	605	50	319,061	100%	0.05	55,006	4,074
SB-207	0.320	724	232	19	319,080	100%	0.05	55,730	4,128

APPENDIX B-6
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-25	0.290	1,630	473	39	319,119	100%	0.05	57,360	4,249
SB-104	0.290	2,055	596	49	319,168	100%	0.04	59,415	4,401
SB-141	0.290	1,025	297	25	319,193	100%	0.04	60,440	4,477
TSB-23	0.290	1,593	462	38	319,231	100%	0.04	62,033	4,595
SB-88	0.277	2,064	572	47	319,278	99.9%	0.03	64,097	4,748
SB-P	0.270	210	57	5	319,283	100%	0.03	64,307	4,764
TSB-26	0.216	899	194	16	319,299	100%	0.03	65,207	4,830
TSB-12	0.210	1,328	279	23	319,322	100%	0.03	66,535	4,929
SB-37	0.209	1,040	217	18	319,340	100%	0.02	67,575	5,006
SB-8	0.205	599	123	10	319,350	100%	0.02	68,173	5,050
SB-142	0.190	421	80	7	319,356	100%	0.02	68,594	5,081
TSB-5	0.190	1,915	364	30	319,386	100%	0.02	70,510	5,223
SB-3	0.189	643	121	10	319,396	100%	0.02	71,152	5,271
TSB-20	0.186	1,407	262	22	319,418	100%	0.01	72,559	5,375
SB-40	0.167	715	119	10	319,428	100%	0.01	73,273	5,428
SB-15	0.162	174	28	2	319,430	100%	0.01	73,447	5,441
TSB-7	0.124	973	121	10	319,440	100%	0.01	74,420	5,513
TSB-14	0.123	1,465	180	15	319,455	100%	0.01	75,885	5,621
SB-200	0.120	203	24	2	319,457	100%	0.01	76,088	5,636
SB-210	0.100	144	14	1	319,458	100%	0.01	76,232	5,647
SB-4	0.092	826	76	6	319,464	100%	0.01	77,058	5,708
TSB-8	0.091	263	24	2	319,466	100%	0.01	77,321	5,728
SB-10	0.090	1,092	98	8	319,475	100%	0.01	78,413	5,808
SB-39	0.074	387	29	2	319,477	100%	0.01	78,801	5,837
SB-196	0.064	447	29	2	319,479	100%	0.01	79,248	5,870
SB-32	0.059	813	48	4	319,483	100%	0.01	80,061	5,930
SB-23	0.059	1,507	89	7	319,491	100%	0.01	81,568	6,042
TSB-3	0.057	2,133	122	10	319,501	100%	0.00	83,702	6,200
TSB-10	0.056	1,616	90	7	319,508	100%	0.00	85,318	6,320
SB-202	0.055	157	9	1	319,509	100%	0.00	85,475	6,331
TSB-31	0.050	2,099	105	9	319,517	100%	0.00	87,574	6,487
SB-109	0.045	979	44	4	319,521	100%	0.00	88,553	6,559
SB-19	0.042	638	27	2	319,523	100%	0.00	89,191	6,607
SB-90	0.042	452	19	2	319,525	100.0%	0.00	89,643	6,640
SB-194	0.041	173	7	1	319,525	100%	0.00	89,816	6,653
SB-211	0.034	756	26	2	319,528	100%	0.00	90,572	6,709
SB-27	0.029	881	26	2	319,530	100%	0.00	91,453	6,774
SB-11	0.021	532	11	1	319,531	100%	0.00	91,985	6,814
SB-195	0.021	524	11	1	319,531	100%	0.00	92,510	6,853
TSB-19	0.021	1,609	33	3	319,534	100%	0.00	94,119	6,972
TSB-24	0.017	1,460	25	2	319,536	100%	0.00	95,579	7,080
SB-2	0.017	626	10	1	319,537	100%	0.00	96,205	7,126
SB-1	0.015	598	9	1	319,538	100%	0.00	96,803	7,171
SB-180	0.012	148	2	0	319,538	100%	0.00	96,951	7,182
TSB-21	0.012	1,600	18	2	319,540	100%	0.00	98,552	7,300

APPENDIX B-6
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 0-2 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 0-2 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-179	0.006	756	5	0	319,540	100%	0.00	99,308	7,356
SB-182	0.006	242	1	0	319,540	100%	0.00	99,549	7,374
SB-178	0.006	2,795	15	1	319,541	100%	0.00	102,344	7,581
SB-183	0.006	434	2	0	319,541	100%	0.00	102,778	7,613
TSB-16	0.004	1,590	6	0	319,542	100%	0.00	104,368	7,731
TSB-30	0.003	1,967	6	0	319,542	100%	0.00	106,335	7,877
ND	0.000	0	0	0	319,542	100%	0.00	106,335	7,877
ND	0.000	0	0	0	319,542	100%	0.00	106,335	7,877
ND	0.000	0	0	0	319,542	100%	0.00	106,335	7,877
ND	0.000	0	0	0	319,542	100%	0.00	106,335	7,877
ND	0.000	0	0	0	319,542	100%		106,335	7,877
Total		106,335	3,522,984	319,542					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-7
AREA-WEIGHTED AVERAGE DETAILS
α-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

α-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				1,653			0.384		
SB-105	0.0035 U	451	2	0.19	0	0%	0.384	451	50
SB-107	0.0165 K	307	5	0.62	1	0%	0.384	758	84
SB-12	0.0760	69	5	0.64	1	0%	0.384	826	92
SB-137	0.0155 K	418	6	0.80	2	0%	0.384	1,245	138
SB-150	45.0000	97	4,377	540.43	543	33%	0.258	1,342	149
SB-151	1.5000	148	221	27.32	570	34%	0.252	1,490	166
SB-152	0.1600 U	317	51	6.26	576	35%	0.250	1,807	201
SB-153	1.6000	244	390	48.19	624	38%	0.239	2,051	228
SB-154	10.0000	215	2,148	265.17	890	54%	0.177	2,265	252
SB-186	0.4600	129	60	7.35	897	54%	0.176	2,395	266
SB-187	0.0350	110	4	0.48	897	54%	0.176	2,505	278
SB-188	0.1400	141	20	2.44	900	54%	0.175	2,646	294
SB-189	1.7000	154	262	32.32	932	56%	0.167	2,800	311
SB-191	0.0039	132	1	0.06	932	56%	0.167	2,932	326
SB-192	0.0032	110	0	0.04	932	56%	0.167	3,041	338
SB-193	0.0150	128	2	0.24	933	56%	0.167	3,169	352
SB-197	0.0360	173	6	0.77	933	56%	0.167	3,341	371
SB-199	0.0700	164	11	1.41	935	57%	0.167	3,505	389
SB-203	0.0031	155	0	0.06	935	57%	0.167	3,660	407
SB-204	0.0038	170	1	0.08	935	57%	0.167	3,830	426
SB-205	0.7100	168	119	14.72	950	57%	0.163	3,998	444
SB-212	0.0036	216	1	0.10	950	57%	0.163	4,215	468
SB-213	0.0032	349	1	0.14	950	57%	0.163	4,563	507
SB-216	0.0083	424	4	0.43	950	57%	0.163	4,987	554
SB-218	0.0032	849	3	0.34	951	58%	0.163	5,836	648
SB-219	0.0032	314	1	0.12	951	58%	0.163	6,150	683
SB-28	0.1100 I	685	75	9.30	960	58%	0.161	6,835	759
SB-29	0.0165 K	540	9	1.10	961	58%	0.161	7,375	819
SB-31	0.3600	548	197	24.34	985	60%	0.155	7,923	880
SB-33	0.0175 K	395	7	0.85	986	60%	0.155	8,318	924
SB-83	2.2000	326	716	88.43	1,075	65%	0.134	8,643	960
SB-95	31.0000	87	2,701	333.42	1,408	85%	0.057	8,730	970
SB-97	3.6000	182	655	80.86	1,489	90%	0.038	8,912	990
SB-98	1.0000	443	443	54.66	1,544	93%	0.025	9,355	1,039
SB-27	1.4000	315	440	54.37	1,598	97%	0.013	9,670	1,074
SB-8	0.2500	522	131	16.12	1,614	98%	0.009	10,192	1,132
SB-108	0.1200	379	45	5.61	1,620	98%	0.008	10,570	1,174
SB-30	0.0950 K	802	76	9.40	1,629	99%	0.006	11,372	1,264
SB-84	0.0800 K	466	37	4.60	1,634	99%	0.004	11,838	1,315
SB-201	0.0700	137	10	1.19	1,635	99%	0.004	11,975	1,331
SB-202	0.0380	157	6	0.74	1,636	99%	0.004	12,133	1,348
SB-200	0.0320	187	6	0.74	1,636	99%	0.004	12,320	1,369
SB-13	0.0319 K	571	18	2.25	1,639	99%	0.003	12,891	1,432
SB-32	0.0220	581	13	1.58	1,640	99%	0.003	13,472	1,497

APPENDIX B-7
AREA-WEIGHTED AVERAGE DETAILS
α-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

α-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-26	0.0160 K	87	1	0.17	1,640	99%	0.003	13,559	1,507
SB-93	0.0160 K	576	9	1.14	1,642	99%	0.003	14,135	1,571
SB-109	0.0160 K	1,071	17	2.12	1,644	99%	0.002	15,206	1,690
SB-135	0.0155 K	338	5	0.65	1,644	99%	0.002	15,545	1,727
SB-139	0.0075 K	461	3	0.43	1,645	100%	0.002	16,006	1,778
SB-190	0.0073	195	1	0.18	1,645	100%	0.002	16,200	1,800
SB-106	0.0045 I	785	4	0.44	1,645	100%	0.002	16,985	1,887
SB-35	0.0041 I	406	2	0.21	1,646	100%	0.002	17,391	1,932
SB-211	0.0038	287	1	0.13	1,646	100%	0.002	17,678	1,964
SB-34	0.0038 I	365	1	0.17	1,646	100%	0.002	18,043	2,005
SB-194	0.0038	181	1	0.09	1,646	100%	0.002	18,224	2,025
SB-10	0.0038 U	865	3	0.40	1,646	100%	0.002	19,089	2,121
SB-85	0.0035 U	315	1	0.14	1,647	100%	0.001	19,404	2,156
SB-99	0.0035 U	1,266	4	0.55	1,647	100%	0.001	20,670	2,297
SB-101	0.0035 U	2,503	9	1.08	1,648	100%	0.001	23,173	2,575
SB-206	0.0034	946	3	0.40	1,649	100%	0.001	24,120	2,680
SB-195	0.0034	801	3	0.34	1,649	100%	0.001	24,920	2,769
SB-196	0.0034	447	2	0.19	1,649	100%	0.001	25,367	2,819
SB-198	0.0034	160	1	0.07	1,649	100%	0.001	25,527	2,836
SB-103	0.0034 U	1,790	6	0.75	1,650	100%	0.001	27,317	3,035
SB-207	0.0033	724	2	0.30	1,650	100%	0.001	28,041	3,116
SB-208	0.0033	303	1	0.12	1,650	100%	0.001	28,344	3,149
SB-58	0.0033 U	44	0	0.02	1,650	100%	0.001	28,388	3,154
SB-92	0.0033 U	831	3	0.34	1,651	100%	0.001	29,219	3,247
SB-B	0.0033 U	31	0	0.01	1,651	100%	0.001	29,249	3,250
SB-100	0.0033 U	1,220	4	0.50	1,651	100%	0.000	30,469	3,385
SB-185	0.0033	270	1	0.11	1,651	100%	0.000	30,739	3,415
SB-132	0.0032 I	539	2	0.21	1,652	100%	0.000	31,279	3,475
SB-21	0.0031 U	1,123	3	0.43	1,652	100%	0.000	32,402	3,600
SB-96	0.0031 U	618	2	0.24	1,652	100%	0.000	33,020	3,669
SB-20	0.0031 I	616	2	0.24	1,652	100%	0.000	33,635	3,737
SB-133	0.0030 U	371	1	0.14	1,653	100%	0.000	34,006	3,778
SB-134	0.0030 U	185	1	0.07	1,653	100%	0.000	34,191	3,799
SB-136	0.0030 U	667	2	0.25	1,653	100%	0.000	34,858	3,873
ND	0.0000	0	0	0.00	1,653	100%	0.000	34,858	3,873
ND	0.0000	0	0	0.00	1,653	100%	0.000	34,858	3,873
ND	0.0000	0	0	0.00	1,653	100%	0.000	34,858	3,873
ND	0.0000	0	0	0.00	1,653	100%	0.000	34,858	3,873
ND	0.0000	0	0	0.00	1,653	100%		34,858	3,873
Total		34,858	13,388	1,653					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-8
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				1,246			0.142		
SB-105	0.0190	451	9	1.06	1	0.1%	0.142	451	50
SB-107	0.0100 K	307	3	0.38	1	0.1%	0.142	758	84
SB-12	0.3900	69	27	3.30	5	0.4%	0.142	826	92
SB-137	0.0095 K	418	4	0.49	5	0.4%	0.142	1,245	138
SB-150	14.0000	97	1,362	168.13	173	13.9%	0.122	1,342	149
SB-151	1.6000	148	236	29.14	203	16.3%	0.119	1,490	166
SB-152	0.6600	317	209	25.83	228	18.3%	0.116	1,807	201
SB-153	1.8000	244	439	54.22	283	22.7%	0.110	2,051	228
SB-154	14.0000	215	3,007	371.24	654	52.5%	0.068	2,265	252
SB-186	0.2000	129	26	3.20	657	52.7%	0.067	2,395	266
SB-187	0.3100	110	34	4.22	661	53.1%	0.067	2,505	278
SB-188	0.0020 U	141	0	0.03	661	53.1%	0.067	2,646	294
SB-189	0.0200 U	154	3	0.38	662	53.1%	0.067	2,800	311
SB-191	1.1000	132	145	17.87	679	54.6%	0.065	2,932	326
SB-192	0.1900	110	21	2.57	682	54.8%	0.064	3,041	338
SB-193	0.0900	128	11	1.42	683	54.9%	0.064	3,169	352
SB-197	0.0640	173	11	1.36	685	55.0%	0.064	3,341	371
SB-199	0.0022 U	164	0	0.04	685	55.0%	0.064	3,505	389
SB-203	0.1100	155	17	2.11	687	55.2%	0.064	3,660	407
SB-204	1.1000	170	187	23.08	710	57.0%	0.061	3,830	426
SB-205	1.9000	168	319	39.39	749	60.2%	0.057	3,998	444
SB-212	0.0022 U	216	0	0.06	750	60.2%	0.057	4,215	468
SB-213	0.1300	349	45	5.59	755	60.6%	0.056	4,563	507
SB-214	0.1700	293	50	6.15	761	61.1%	0.055	4,856	540
SB-215	0.0810	283	23	2.83	764	61.3%	0.055	5,139	571
SB-216	0.6700	424	284	35.09	799	64.2%	0.051	5,563	618
SB-218	0.1200	849	102	12.58	812	65.2%	0.050	6,412	712
SB-219	0.0620	314	19	2.40	814	65.4%	0.049	6,726	747
SB-28	0.2400	685	164	20.30	834	67.0%	0.047	7,411	823
SB-29	0.0100 K	540	5	0.67	835	67.0%	0.047	7,951	883
SB-31	0.0100 K	548	5	0.68	836	67.1%	0.047	8,498	944
SB-33	0.0110 K	395	4	0.54	836	67.1%	0.047	8,893	988
SB-43	0.0100 K	430	4	0.53	837	67.2%	0.047	9,323	1,036
SB-83	0.0500 K	326	16	2.01	839	67.3%	0.046	9,649	1,072
SB-95	13.0000	87	1,133	139.82	979	78.6%	0.030	9,736	1,082
SB-97	0.0500 K	182	9	1.12	980	78.7%	0.030	9,918	1,102
SB-98	1.0000	443	443	54.66	1,034	83.1%	0.024	10,361	1,151
SB-27	0.8200	315	258	31.85	1,066	85.6%	0.020	10,675	1,186
SB-25	0.3600	1,393	501	61.91	1,128	90.6%	0.013	12,068	1,341
SB-102	0.2400	963	231	28.54	1,157	92.9%	0.010	13,031	1,448
SB-138	0.2000	494	99	12.19	1,169	93.9%	0.009	13,525	1,503
SB-139	0.1300 I	461	60	7.40	1,176	94.4%	0.008	13,986	1,554
SB-85	0.0660	315	21	2.57	1,179	94.7%	0.008	14,301	1,589
SB-32	0.0610	581	35	4.37	1,183	95.0%	0.007	14,882	1,654

APPENDIX B-8
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-30	0.0600 K	802	48	5.94	1,189	95.5%	0.006	15,684	1,743
SB-8	0.0558 K	522	29	3.60	1,193	95.8%	0.006	16,206	1,801
SB-106	0.0530 I	785	42	5.13	1,198	96.2%	0.005	16,991	1,888
SB-194	0.0520	181	9	1.16	1,199	96.3%	0.005	17,172	1,908
SB-190	0.0510	195	10	1.23	1,200	96.4%	0.005	17,367	1,930
SB-84	0.0500 K	466	23	2.88	1,203	96.6%	0.005	17,833	1,981
SB-201	0.0420 U	137	6	0.71	1,204	96.7%	0.005	17,970	1,997
SB-140	0.0410 I	377	15	1.91	1,206	96.8%	0.005	18,347	2,039
TSB-18	0.0400	1,235	49	6.10	1,212	97.3%	0.004	19,582	2,176
SB-202	0.0370	157	6	0.72	1,213	97.4%	0.004	19,740	2,193
SB-17	0.0300	645	19	2.39	1,215	97.6%	0.003	20,384	2,265
SB-143	0.0280	879	25	3.04	1,218	97.8%	0.003	21,263	2,363
SB-13	0.0198 K	571	11	1.40	1,220	97.9%	0.003	21,835	2,426
SB-14	0.0190	1,873	36	4.39	1,224	98.3%	0.002	23,708	2,634
SB-206	0.0190 U	946	18	2.22	1,226	98.4%	0.002	24,654	2,739
SB-132	0.0180	539	10	1.20	1,227	98.5%	0.002	25,194	2,799
SB-11	0.0120	565	7	0.84	1,228	98.6%	0.002	25,759	2,862
SB-35	0.0120	406	5	0.60	1,229	98.7%	0.002	26,165	2,907
SB-109	0.0100 K	1,071	11	1.32	1,230	98.8%	0.002	27,237	3,026
SB-26	0.0100 K	87	1	0.11	1,230	98.8%	0.002	27,323	3,036
SB-93	0.0100 K	576	6	0.71	1,231	98.8%	0.002	27,899	3,100
SB-135	0.0095 K	338	3	0.40	1,231	98.9%	0.002	28,238	3,138
SB-217	0.0079	392	3	0.38	1,232	98.9%	0.002	28,630	3,181
SB-198	0.0076	160	1	0.15	1,232	98.9%	0.002	28,790	3,199
SB-19	0.0074 I	638	5	0.58	1,232	98.9%	0.002	29,427	3,270
SB-92	0.0074 I	831	6	0.76	1,233	99.0%	0.001	30,258	3,362
SB-20	0.0067 I	616	4	0.51	1,234	99.0%	0.001	30,874	3,430
SB-136	0.0060 I	667	4	0.49	1,234	99.1%	0.001	31,541	3,505
SB-22	0.0059 I	977	6	0.71	1,235	99.1%	0.001	32,518	3,613
SB-210	0.0054	144	1	0.10	1,235	99.2%	0.001	32,661	3,629
SB-196	0.0045	447	2	0.25	1,235	99.2%	0.001	33,108	3,679
SB-211	0.0038 U	287	1	0.13	1,235	99.2%	0.001	33,395	3,711
SB-23	0.0027 I	1,502	4	0.50	1,236	99.2%	0.001	34,897	3,877
TSB-14	0.0025 U	1,465	4	0.45	1,236	99.3%	0.001	36,362	4,040
TSB-19	0.0025 U	1,609	4	0.50	1,237	99.3%	0.001	37,971	4,219
TSB-22	0.0025 U	1,278	3	0.39	1,237	99.3%	0.001	39,250	4,361
TSB-27	0.0025 U	771	2	0.24	1,237	99.3%	0.001	40,021	4,447
TSB-28	0.0025 U	1,910	5	0.59	1,238	99.4%	0.001	41,930	4,659
TSB-9	0.0025 U	1,439	4	0.44	1,238	99.4%	0.001	43,369	4,819
SB-108	0.0024 U	379	1	0.11	1,239	99.4%	0.001	43,748	4,861
SB-141	0.0024 U	1,025	2	0.30	1,239	99.5%	0.001	44,773	4,975
SB-10	0.0023 U	865	2	0.25	1,239	99.5%	0.001	45,638	5,071
SB-58	0.0023 I	44	0	0.01	1,239	99.5%	0.001	45,682	5,076
SB-101	0.0022 U	2,503	6	0.68	1,240	99.5%	0.001	48,185	5,354
SB-104	0.0022 U	2,055	5	0.56	1,240	99.6%	0.001	50,240	5,582

APPENDIX B-8
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-195	0.0022	801	2	0.22	1,241	99.6%	0.001	51,040	5,671
SB-Q	0.0022 I	615	1	0.17	1,241	99.6%	0.001	51,655	5,739
SB-100	0.0021 U	1,220	3	0.32	1,241	99.6%	0.001	52,875	5,875
SB-103	0.0021 U	1,790	4	0.46	1,242	99.7%	0.000	54,664	6,074
SB-184	0.0021 U	2,105	4	0.55	1,242	99.7%	0.000	56,770	6,308
SB-185	0.0021 U	270	1	0.07	1,242	99.7%	0.000	57,040	6,338
SB-200	0.0021 U	187	0	0.05	1,242	99.7%	0.000	57,227	6,359
SB-208	0.0021 U	303	1	0.08	1,242	99.7%	0.000	57,530	6,392
SB-209	0.0021 U	267	1	0.07	1,242	99.7%	0.000	57,797	6,422
SB-99	0.0021 U	1,266	3	0.33	1,243	99.8%	0.000	59,063	6,563
SB-181	0.0020 U	2,424	5	0.60	1,243	99.8%	0.000	61,486	6,832
SB-207	0.0020 U	724	1	0.18	1,243	99.8%	0.000	62,210	6,912
SB-24	0.0020 U	1,515	3	0.37	1,244	99.9%	0.000	63,725	7,081
SB-34	0.0020 U	365	1	0.09	1,244	99.9%	0.000	64,090	7,121
SB-B	0.0020 U	31	0	0.01	1,244	99.9%	0.000	64,121	7,125
SB-5	0.0020 U	720	1	0.18	1,244	99.9%	0.000	64,840	7,204
SB-P	0.0019 U	210	0	0.05	1,244.2	99.9%	0.000	65,050	7,228
SB-126	0.0019 U	727	1	0.17	1,244	99.9%	0.000	65,777	7,309
SB-127	0.0019 U	560	1	0.13	1,244	100%	0.000	66,337	7,371
SB-128	0.0019 U	253	0	0.06	1,245	100%	0.000	66,590	7,399
SB-129	0.0019 U	261	0	0.06	1,245	100%	0.000	66,851	7,428
SB-130	0.0019 U	455	1	0.11	1,245	100%	0.000	67,306	7,478
SB-133	0.0019 U	371	1	0.09	1,245	100%	0.000	67,677	7,520
SB-142	0.0019 U	421	1	0.10	1,245	100%	0.000	68,098	7,566
SB-21	0.0019 U	1,123	2	0.26	1,245	100%	0.000	69,221	7,691
SB-C	0.0019 U	908	2	0.21	1,245	100%	0.000	70,128	7,792
SB-134	0.0019 I	185	0	0.04	1,245	100%	0.000	70,313	7,813
SB-96	0.0019 U	618	1	0.14	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%	0.000	70,931	7,881
ND	0.0000	0	0	0.00	1,246	100%		70,931	7,881
Total		70,931	10,089	1,246					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-9
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				1,033			0.201		
SB-105	0.0027 U	451	1	0.15	0	0%	0.200	451	50
SB-107	0.0125 K	307	4	0.47	1	0%	0.200	758	84
SB-12	0.0790	69	5	0.67	1	0%	0.200	826	92
SB-150	10.0000	97	973	120.10	121	12%	0.177	924	103
SB-151	0.6700	148	99	12.20	134	13%	0.175	1,071	119
SB-152	0.1200 U	317	38	4.70	138	13%	0.174	1,388	154
SB-153	0.9900	244	242	29.82	168	16%	0.168	1,632	181
SB-154	12.0000	215	2,577	318.20	486	47%	0.106	1,847	205
SB-186	0.2800	129	36	4.47	491	47%	0.105	1,976	220
SB-187	0.0250 U	110	3	0.34	491	48%	0.105	2,087	232
SB-188	0.2700	141	38	4.71	496	48%	0.104	2,228	248
SB-189	0.0240 U	154	4	0.46	496	48%	0.104	2,382	265
SB-191	0.0027 U	132	0	0.04	496	48%	0.104	2,514	279
SB-192	0.0024 U	110	0	0.03	496	48%	0.104	2,623	291
SB-193	0.0190	128	2	0.30	497	48%	0.104	2,751	306
SB-197	0.1300	173	22	2.77	499	48%	0.104	2,923	325
SB-199	0.1500	164	25	3.03	502	49%	0.103	3,087	343
SB-203	0.0280	155	4	0.54	503	49%	0.103	3,242	360
SB-204	0.0029 U	170	0	0.06	503	49%	0.103	3,412	379
SB-205	0.4300	168	72	8.91	512	50%	0.101	3,580	398
SB-212	3.3000	216	714	88.16	600	58%	0.084	3,796	422
SB-213	0.0024 U	349	1	0.10	600	58%	0.084	4,145	461
SB-214	0.0180	293	5	0.65	601	58%	0.084	4,438	493
SB-215	0.0024 U	283	1	0.08	601	58%	0.084	4,721	525
SB-216	0.0440	424	19	2.30	603	58%	0.083	5,145	572
SB-218	0.0140	849	12	1.47	605	59%	0.083	5,994	666
SB-219	0.0028	314	1	0.11	605	59%	0.083	6,307	701
SB-28	0.0125 K	685	9	1.06	606	59%	0.083	6,992	777
SB-29	0.0125 K	540	7	0.83	607	59%	0.083	7,533	837
SB-31	0.0125 K	548	7	0.84	608	59%	0.083	8,080	898
SB-33	0.7300	395	288	35.58	643	62%	0.076	8,475	942
SB-44	0.0125 K	454	6	0.70	644	62%	0.076	8,929	992
SB-45	0.0130 K	350	5	0.56	644	62%	0.075	9,279	1,031
SB-47	0.7600	599	455	56.18	701	68%	0.065	9,878	1,098
SB-83	0.0600 K	326	20	2.41	703	68%	0.064	10,204	1,134
SB-95	8.0000	87	697	86.04	789	76%	0.047	10,291	1,143
SB-97	1.2000	182	218	26.95	816	79%	0.042	10,473	1,164
SB-98	0.6100	443	270	33.34	849	82%	0.036	10,915	1,213
SB-108	2.2000	379	833	102.83	952	92%	0.016	11,294	1,255
SB-211	0.8900	287	255	31.49	984	95%	0.010	11,581	1,287
SB-26	0.4600	87	40	4.92	989	96%	0.009	11,667	1,296
SB-27	0.1600	315	50	6.21	995	96%	0.007	11,982	1,331
SB-102	0.0980	963	94	11.65	1,006	97%	0.005	12,945	1,438
SB-30	0.0700 K	802	56	6.93	1,013	98%	0.004	13,747	1,527
SB-80	0.0650 K	223	15	1.79	1,015	98%	0.004	13,970	1,552
SB-84	0.0600 K	466	28	3.45	1,019	99%	0.003	14,436	1,604

APPENDIX B-9
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-201	0.0520 U	137	7	0.88	1,020	99%	0.003	14,573	1,619
SB-13	0.0242 K	571	14	1.71	1,021	99%	0.002	15,144	1,683
SB-25	0.0125 K	1,630	20	2.52	1,024	99%	0.002	16,775	1,864
SB-78	0.0125 K	381	5	0.59	1,024	99%	0.002	17,156	1,906
SB-79	0.0125 K	370	5	0.57	1,025	99%	0.002	17,526	1,947
SB-93	0.0120 K	576	7	0.85	1,026	99%	0.001	18,102	2,011
SB-135	0.0115 K	338	4	0.48	1,026	99%	0.001	18,440	2,049
SB-210	0.0098	144	1	0.17	1,026	99%	0.001	18,584	2,065
SB-34	0.0079 I	365	3	0.36	1,027	99%	0.001	18,949	2,105
SB-C	0.0065 I	908	6	0.73	1,028	99%	0.001	19,856	2,206
SB-198	0.0062	160	1	0.12	1,028	99%	0.001	20,016	2,224
SB-202	0.0055	157	1	0.11	1,028	99%	0.001	20,174	2,242
SB-35	0.0039 I	406	2	0.20	1,028	99%	0.001	20,580	2,287
SB-106	0.0029 U	785	2	0.28	1,028	99%	0.001	21,365	2,374
SB-132	0.0029 I	539	2	0.19	1,028	100%	0.001	21,904	2,434
SB-19	0.0029 U	638	2	0.23	1,029	100%	0.001	22,542	2,505
SB-10	0.0029 U	865	2	0.31	1,029	100%	0.001	23,407	2,601
SB-101	0.0027 U	2,503	7	0.83	1,030	100%	0.001	25,910	2,879
SB-194	0.0027 U	181	0	0.06	1,030	100%	0.001	26,091	2,899
SB-4	0.0026 U	826	2	0.27	1,030	100%	0.001	26,917	2,991
SB-32	0.0026 U	581	2	0.19	1,030	100%	0.001	27,498	3,055
SB-200	0.0026 U	187	0	0.06	1,030	100%	0.001	27,685	3,076
SB-85	0.0026 U	315	1	0.10	1,030	100%	0.001	28,001	3,111
SB-Q	0.0026 U	615	2	0.20	1,031	100%	0.001	28,615	3,179
SB-100	0.0025 U	1,220	3	0.38	1,031	100%	0.000	29,835	3,315
SB-185	0.0025 U	270	1	0.08	1,031	100%	0.000	30,105	3,345
SB-58	0.0025 U	44	0	0.01	1,031	100%	0.000	30,150	3,350
SB-B	0.0025 U	31	0	0.01	1,031	100%	0.000	30,180	3,353
SB-92	0.0025 U	831	2	0.26	1,031	100%	0.000	31,011	3,446
SB-190	0.0025 U	195	0	0.06	1,031	100%	0.000	31,206	3,467
SB-22	0.0024 U	977	2	0.29	1,032	100%	0.000	32,182	3,576
SB-24	0.0024 U	1,515	4	0.45	1,032	100%	0.000	33,697	3,744
SB-96	0.0024 U	618	1	0.18	1,032	100%	0.000	34,315	3,813
SB-P	0.0023 U	210	0	0.06	1,032	100%	0.000	34,525	3,836
SB-130	0.0023 U	455	1	0.13	1,033	100%	0.000	34,980	3,887
SB-133	0.0023 U	371	1	0.11	1,033	100%	0.000	35,351	3,928
SB-17	0.0023 U	645	1	0.18	1,033	100%	0.000	35,996	4,000
SB-134	0.0023 U	185	0	0.05	1,033	100%	0.000	36,180	4,020
SB-20	0.0023 U	616	1	0.17	1,033	100%	0.000	36,796	4,088
SB-11	0.0022 U	565	1	0.15	1,033	100%	0.000	37,361	4,151
SB-3	0.0022 U	769	2	0.21	1,033	100%	0.000	38,131	4,237
SB-195	0.0000 U	801	0	0.00	1,033	100%	0.000	38,932	4,326
SB-196	0.0000 U	447	0	0.00	1,033	100%	0.000	39,378	4,375
SB-206	0.0000 U	946	0	0.00	1,033	100%	0.000	40,325	4,481
SB-207	0.0000 U	724	0	0.00	1,033	100%	0.000	41,049	4,561
SB-208	0.0000 U	303	0	0.00	1,033	100%	0.000	41,352	4,595
SB-217	0.0000 U	392	0	0.00	1,033	100%	0.000	41,744	4,638
ND	0.0000	0	0	0.00	1,033	100%	0.000	41,744	4,638

APPENDIX B-9
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
ND	0.0000	0	0	0.00	1,033	100%	0.000	41,744	4,638
ND	0.0000	0	0	0.00	1,033	100%	0.000	41,744	4,638
ND	0.0000	0	0	0.00	1,033	100%	0.000	41,744	4,638
ND	0.0000	0	0	0.00	1,033	100%		41,744	4,638
Total		41,744	8,370	1,033					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-10
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				1,542			0.208		
SB-105	0.0007 U	451	0	0.04	0	0%	0.208	451	50
SB-107	0.0034 K	307	1	0.13	0	0%	0.208	758	84
SB-12	0.0120	69	1	0.10	0	0%	0.208	826	92
SB-137	0.0032 K	418	1	0.17	0	0%	0.208	1,245	138
SB-150	19.0000	97	1,848	228.18	229	15%	0.177	1,342	149
SB-151	0.6500	148	96	11.84	240	16%	0.176	1,490	166
SB-152	0.0320 U	317	10	1.25	242	16%	0.175	1,807	201
SB-153	0.2700	244	66	8.13	250	16%	0.174	2,051	228
SB-154	0.0430 U	215	9	1.14	251	16%	0.174	2,265	252
SB-186	0.4800	129	62	7.67	259	17%	0.173	2,395	266
SB-187	0.0780	110	9	1.06	260	17%	0.173	2,505	278
SB-188	2.2000	141	311	38.39	298	19%	0.168	2,646	294
SB-189	3.0000	154	462	57.04	355	23%	0.160	2,800	311
SB-191	0.0007 U	132	0	0.01	355	23%	0.160	2,932	326
SB-192	0.0092	110	1	0.12	355	23%	0.160	3,041	338
SB-193	0.0180	128	2	0.28	356	23%	0.160	3,169	352
SB-197	0.0074 U	173	1	0.16	356	23%	0.160	3,341	371
SB-199	0.0007 U	164	0	0.01	356	23%	0.160	3,505	389
SB-203	0.0059	155	1	0.11	356	23%	0.160	3,660	407
SB-204	0.0008 U	170	0	0.02	356	23%	0.160	3,830	426
SB-205	0.8700	168	146	18.04	374	24%	0.158	3,998	444
SB-212	0.0008 U	216	0	0.02	374	24%	0.158	4,215	468
SB-213	0.0020	349	1	0.09	374	24%	0.158	4,563	507
SB-214	0.0110	293	3	0.40	374	24%	0.157	4,856	540
SB-215	0.0091	283	3	0.32	375	24%	0.157	5,139	571
SB-216	0.0190	424	8	0.99	376	24%	0.157	5,563	618
SB-218	0.0096	849	8	1.01	377	24%	0.157	6,412	712
SB-219	0.0007 U	314	0	0.03	377	24%	0.157	6,726	747
SB-28	0.0034 K	685	2	0.28	377	24%	0.157	7,411	823
SB-29	1.6000	540	864	106.72	484	31%	0.143	7,951	883
SB-31	1.3000	548	712	87.88	572	37%	0.131	8,498	944
SB-33	1.1000	395	434	53.61	625	41%	0.124	8,893	988
SB-43	0.7700	430	331	40.90	666	43%	0.118	9,323	1,036
SB-44	2.3000	454	1,045	129.00	795	52%	0.101	9,778	1,086
SB-45	1.2000	350	420	51.88	847	55%	0.094	10,128	1,125
SB-47	2.0000	599	1,197	147.83	995	65%	0.074	10,727	1,192
SB-83	0.0170 K	326	6	0.68	996	65%	0.074	11,052	1,228
SB-95	0.0170 K	87	1	0.18	996	65%	0.074	11,139	1,238
SB-97	5.2000	182	946	116.80	1,113	72%	0.058	11,321	1,258
SB-98	0.0165 K	443	7	0.90	1,113	72%	0.058	11,764	1,307
SB-44	2.3000	454	1,045	129.00	1,242	81%	0.040	12,218	1,358
SB-47	2.0000	599	1,197	147.83	1,390	90%	0.020	12,817	1,424
SB-45	1.2000	350	420	51.88	1,442	94%	0.013	13,167	1,463
SB-27	0.9600	315	302	37.28	1,479	96%	0.008	13,482	1,498

APPENDIX B-10
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-43	0.7700	430	331	40.90	1,520	99%	0.003	13,912	1,546
SB-32	0.0510	581	30	3.66	1,524	99%	0.002	14,493	1,610
SB-17	0.0470	645	30	3.74	1,528	99%	0.002	15,138	1,682
SB-202	0.0440	157	7	0.86	1,529	99%	0.002	15,295	1,699
SB-8	0.0186 K	522	10	1.20	1,530	99%	0.002	15,817	1,757
SB-80	0.0175 K	223	4	0.48	1,530	99%	0.002	16,040	1,782
SB-84	0.0170 K	466	8	0.98	1,531	99%	0.001	16,506	1,834
SB-201	0.0140 U	137	2	0.24	1,531	99%	0.001	16,643	1,849
SB-20	0.0096	616	6	0.73	1,532	99%	0.001	17,259	1,918
SB-138	0.0075	494	4	0.46	1,533	99%	0.001	17,753	1,973
SB-11	0.0073	565	4	0.51	1,533	99%	0.001	18,318	2,035
SB-194	0.0068	181	1	0.15	1,533	99%	0.001	18,499	2,055
SB-13	0.0066 K	571	4	0.47	1,534	99%	0.001	19,071	2,119
SB-206	0.0064 U	946	6	0.75	1,535	100%	0.001	20,017	2,224
SB-35	0.0043	406	2	0.22	1,535	100%	0.001	20,424	2,269
SB-190	0.0041	195	1	0.10	1,535	100%	0.001	20,619	2,291
SB-210	0.0040	144	1	0.07	1,535	100%	0.001	20,762	2,307
SB-79	0.0035 K	370	1	0.16	1,535	100%	0.001	21,132	2,348
SB-78	0.0034 K	381	1	0.16	1,535	100%	0.001	21,513	2,390
SB-109	0.0034 K	1,071	4	0.44	1,536	100%	0.001	22,585	2,509
SB-26	0.0034 K	87	0	0.04	1,536	100%	0.001	22,671	2,519
SB-46	0.0034 K	2,231	7	0.92	1,537	100%	0.001	24,902	2,767
SB-88	0.0034 K	794	3	0.33	1,537	100%	0.001	25,696	2,855
SB-102	0.0033	963	3	0.39	1,537	100%	0.001	26,659	2,962
SB-93	0.0033 K	576	2	0.23	1,538	100%	0.001	27,235	3,026
SB-135	0.0032 K	338	1	0.13	1,538	100%	0.001	27,574	3,064
SB-140	0.0032 K	377	1	0.15	1,538	100%	0.001	27,951	3,106
SB-34	0.0031	365	1	0.14	1,538	100%	0.000	28,315	3,146
TSB-22	0.0025 U	1,278	3	0.39	1,538	100%	0.000	29,594	3,288
TSB-27	0.0025 U	771	2	0.24	1,539	100%	0.000	30,365	3,374
TSB-9	0.0025 U	1,439	4	0.44	1,539	100%	0.000	31,804	3,534
SB-139	0.0016 K	461	1	0.09	1,539	100%	0.000	32,265	3,585
SB-19	0.0016	638	1	0.12	1,539	100%	0.000	32,902	3,656
SB-103	0.0013	1,790	2	0.28	1,540	100%	0.000	34,692	3,855
SB-108	0.0008 U	379	0	0.04	1,540	100%	0.000	35,071	3,897
SB-10	0.0008 U	865	1	0.08	1,540	100%	0.000	35,935	3,993
SB-211	0.0008 U	287	0	0.03	1,540	100%	0.000	36,222	4,025
SB-209	0.0008 U	267	0	0.03	1,540	100%	0.000	36,489	4,054
SB-101	0.0007 U	2,503	2	0.23	1,540	100%	0.000	38,992	4,332
SB-104	0.0007 U	2,055	1	0.18	1,540	100%	0.000	41,047	4,561
SB-195	0.0007 U	801	1	0.07	1,540	100%	0.000	41,847	4,650
SB-196	0.0007 U	447	0	0.04	1,540	100%	0.000	42,294	4,699
SB-198	0.0007 U	160	0	0.01	1,540	100%	0.000	42,454	4,717
SB-200	0.0007 U	187	0	0.02	1,540	100%	0.000	42,642	4,738
SB-42	0.0007 U	1,112	1	0.10	1,540	100%	0.000	43,754	4,862

APPENDIX B-10
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-85	0.0007 U	315	0	0.03	1,540	100%	0.000	44,069	4,897
SB-89	0.0007 U	213	0	0.02	1,540	100%	0.000	44,282	4,920
SB-Q	0.0007 U	615	0	0.05	1,540	100%	0.000	44,896	4,988
SB-100	0.0007 U	1,220	1	0.10	1,541	100%	0.000	46,116	5,124
SB-58	0.0007 U	44	0	0.00	1,541	100%	0.000	46,160	5,129
SB-207	0.0007 U	724	0	0.06	1,541	100%	0.000	46,884	5,209
SB-B	0.0007 U	31	0	0.00	1,541	100%	0.000	46,915	5,213
SB-92	0.0007 U	831	1	0.07	1,541	100%	0.000	47,746	5,305
SB-21	0.0007 U	1,123	1	0.09	1,541	100%	0.000	48,869	5,430
SB-217	0.0007 U	392	0	0.03	1,541	100%	0.000	49,260	5,473
SB-22	0.0007 U	977	1	0.08	1,541	100%	0.000	50,237	5,582
SB-23	0.0007 U	1,502	1	0.12	1,541	100%	0.000	51,739	5,749
SB-C	0.0007 U	908	1	0.07	1,541	100%	0.000	52,647	5,850
SB-96	0.0007 U	618	0	0.05	1,541	100%	0.000	53,265	5,918
SB-P	0.0006 U	210	0	0.02	1,541	100%	0.000	53,475	5,942
SB-129	0.0006 U	261	0	0.02	1,541	100%	0.000	53,736	5,971
SB-130	0.0006 U	455	0	0.04	1,541	100%	0.000	54,191	6,021
SB-132	0.0006 U	539	0	0.04	1,541	100%	0.000	54,730	6,081
SB-127	0.0006 U	560	0	0.04	1,541	100%	0.000	55,291	6,143
SB-128	0.0006 U	253	0	0.02	1,541	100%	0.000	55,543	6,171
SB-49	0.0006 U	2,868	2	0.22	1,542	100%	0.000	58,411	6,490
SB-134	0.0006 U	185	0	0.01	1,542	100%	0.000	58,596	6,511
SB-136	0.0006 U	667	0	0.05	1,542	100%	0.000	59,263	6,585
SB-3	0.0006 U	769	0	0.06	1,542	100%	0.000	60,033	6,670
ND	0.0000	0	0	0.00	1,542	100%	0.000	60,033	6,670
ND	0.0000	0	0	0.00	1,542	100%	0.000	60,033	6,670
ND	0.0000	0	0	0.00	1,542	100%		60,033	6,670
Total		60,033	12,487	1,542					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-11
AREA-WEIGHTED AVERAGE DETAILS
TOXAPHENE BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Toxaphene 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No Excavation				23,655			5.34		
SB-105	0.2800 U	451	126	15.60	16	0%	5.33	451	50
SB-107	190.0000 I	307	58,239	7,190.27	7,206	30%	3.71	758	84
SB-12	14.0000	69	961	118.60	7,324	31%	3.68	826	92
SB-150	14.0000 U	97	1,362	168.13	7,493	32%	3.65	924	103
SB-151	150.0000	148	22,128	2,731.91	10,225	43%	3.03	1,071	119
SB-152	78.0000	317	24,729	3,053.09	13,278	56%	2.34	1,388	154
SB-153	5.0000 U	244	1,220	150.61	13,428	57%	2.31	1,632	181
SB-189	2.5000 U	154	385	47.54	13,476	57%	2.30	1,786	198
SB-191	0.2800 U	132	37	4.55	13,480	57%	2.30	1,918	213
SB-192	3.6000	110	394	48.70	13,529	57%	2.28	2,027	225
SB-193	0.2600 U	128	33	4.09	13,533	57%	2.28	2,155	239
SB-199	0.2800 U	164	46	5.66	13,539	57%	2.28	2,319	258
SB-203	0.2400 U	155	37	4.60	13,543	57%	2.28	2,474	275
SB-204	0.3000 U	170	51	6.29	13,550	57%	2.28	2,644	294
SB-205	0.5300 U	168	89	10.99	13,561	57%	2.28	2,812	312
SB-212	130.0000	216	28,131	3,473.12	17,034	72%	1.49	3,028	336
SB-213	0.2500 U	349	87	10.76	17,045	72%	1.49	3,377	375
SB-214	0.2500 U	293	73	9.04	17,054	72%	1.49	3,670	408
SB-215	0.2500 U	283	71	8.72	17,062	72%	1.49	3,952	439
SB-216	1.3000	424	551	68.08	17,130	72%	1.47	4,376	486
SB-218	0.3000	849	255	31.44	17,162	73%	1.46	5,225	581
SB-219	0.2600 U	314	82	10.07	17,172	73%	1.46	5,539	615
SB-43	1.3000 K	430	559	69.05	17,241	73%	1.45	5,969	663
SB-97	100.0000	182	18,194	2,246.22	19,487	82%	0.94	6,151	683
SB-129	18.0000	261	4,697	579.87	20,067	85%	0.81	6,412	712
TSB-10	9.6000	1,616	15,514	1,915.38	21,982	93%	0.38	8,028	892
SB-95	6.5000 K	87	566	69.91	22,052	93%	0.36	8,115	902
SB-17	3.8000	645	2,451	302.57	22,355	95%	0.29	8,760	973
SB-13	2.5300 K	571	1,446	178.51	22,533	95%	0.25	9,332	1,037
SB-217	1.8000	392	705	87.07	22,620	96%	0.23	9,724	1,080
TSB-27	1.4000	771	1,079	133.25	22,754	96%	0.20	10,494	1,166
SB-26	1.3000 K	87	113	13.90	22,768	96%	0.20	10,581	1,176
SB-79	1.3000 K	370	481	59.40	22,827	96%	0.19	10,951	1,217
SB-89	0.9200 I	213	196	24.16	22,851	97%	0.18	11,164	1,240
SB-35	0.5600 I	406	228	28.10	22,879	97%	0.18	11,570	1,286
SB-106	0.3000 U	785	235	29.06	22,908	97%	0.17	12,355	1,373
TSB-9	0.3000	1,439	432	53.30	22,962	97%	0.16	13,794	1,533
SB-19	0.3000 U	638	191	23.63	22,985	97%	0.15	14,432	1,604
SB-211	0.3000 U	287	86	10.61	22,996	97%	0.15	14,718	1,635
SB-194	0.2900 U	181	53	6.49	23,002	97%	0.15	14,900	1,656
SB-103	0.2700 U	1,790	483	59.66	23,062	97%	0.13	16,689	1,854
SB-42	0.2700 U	1,112	300	37.07	23,099	98%	0.13	17,801	1,978
SB-99	0.2700 U	1,266	342	42.20	23,141	98%	0.12	19,067	2,119
SB-58	0.2600 U	44	11	1.42	23,143	98%	0.12	19,111	2,123

APPENDIX B-11
AREA-WEIGHTED AVERAGE DETAILS
TOXAPHENE BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Toxaphene 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-90	0.2600 U	647	168	20.78	23,164	98%	0.11	19,759	2,195
SB-B	0.2600 U	31	8	0.98	23,164	98%	0.11	19,789	2,199
SB-190	0.2600 U	195	51	6.25	23,171	98%	0.11	19,984	2,220
TSB-11	0.2500 U	1,610	403	49.71	23,220	98%	0.10	21,595	2,399
TSB-14	0.2500 U	1,465	366	45.21	23,266	98%	0.09	23,059	2,562
TSB-15	0.2500 U	1,594	398	49.20	23,315	99%	0.08	24,653	2,739
TSB-28	0.2500 U	1,910	477	58.95	23,374	99%	0.06	26,563	2,951
TSB-5	0.2500 U	1,915	479	59.12	23,433	99%	0.05	28,479	3,164
TSB-6	0.2500 U	1,635	409	50.46	23,483	99%	0.04	30,113	3,346
SB-96	0.2500 U	618	155	19.08	23,502	99%	0.03	30,731	3,415
SB-202	0.2500 U	157	39	4.86	23,507	99%	0.03	30,889	3,432
SB-126	0.2400 U	727	174	21.53	23,529	99%	0.03	31,616	3,513
SB-127	0.2400 U	560	135	16.61	23,545	100%	0.02	32,176	3,575
SB-128	0.2400 U	253	61	7.49	23,553	100%	0.02	32,429	3,603
SB-130	0.2400 U	455	109	13.48	23,566	100%	0.02	32,884	3,654
SB-131	0.2400 U	744	179	22.05	23,588	100%	0.02	33,628	3,736
SB-133	0.2400 U	371	89	10.99	23,599	100%	0.01	33,999	3,778
SB-132	0.2400 U	539	129	15.98	23,615	100%	0.01	34,538	3,838
SB-134	0.2400 U	185	44	5.48	23,621	100%	0.01	34,723	3,858
SB-20	0.2400 U	616	148	18.24	23,639	100%	0.00	35,338	3,926
SB-11	0.2300 U	565	130	16.05	23,655	100%	0.00	35,903	3,989
ND	0.0000	0	0	0.00	23,655	100%	0.00	35,903	3,989
ND	0.0000	0	0	0.00	23,655	100%	0.00	35,903	3,989
ND	0.0000	0	0	0.00	23,655	100%	0.00	35,903	3,989
ND	0.0000	0	0	0.00	23,655	100%	0.00	35,903	3,989
ND	0.0000	0	0.000	0.00	23,655	100%		35,903	3,989
Total		35,903	191,599	23,655					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-12
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No Excavation				70,575			8.21		
SB-105	0.0570	451	26	3.18	3	0%	8.21	451	50
SB-107	102.0000	307	31,265	3,860.05	3,863	5%	7.76	758	84
SB-12	0.8500	65	56	6.86	3,870	5%	7.76	823	91
SB-137	550.0000	418	230,081	28,406.25	32,276	46%	4.46	1,242	138
SB-150	70.0000	97	6,809	840.68	33,117	47%	4.36	1,339	149
SB-151	14.4000	148	2,124	262.27	33,379	47%	4.33	1,486	165
SB-152	15.3000	317	4,851	598.87	33,978	48%	4.26	1,803	200
SB-153	0.3000	244	73	9.04	33,987	48%	4.26	2,047	227
SB-154	340.0000	215	73,024	9,015.69	43,003	61%	3.21	2,262	251
SB-186	1.4000	129	181	22.37	43,025	61%	3.21	2,392	266
SB-187	7.5000	110	826	102.02	43,127	61%	3.19	2,502	278
SB-188	4.8000	141	678	83.76	43,211	61%	3.18	2,643	294
SB-189	8.5000	154	1,309	161.62	43,373	61%	3.17	2,797	311
SB-192	0.6300	110	69	8.52	43,381	61%	3.17	2,907	323
SB-197	0.4900	173	85	10.44	43,392	61%	3.16	3,079	342
SB-199	0.3600	164	59	7.27	43,399	61%	3.16	3,243	360
SB-204	0.0290	170	5	0.61	43,399	61%	3.16	3,413	379
SB-212	0.5800	244	141	17.44	43,417	62%	3.16	3,656	406
SB-213	0.5200	356	185	22.85	43,440	62%	3.16	4,012	446
SB-215	0.1800	283	51	6.28	43,446	62%	3.16	4,295	477
SB-216	0.1300	416	54	6.67	43,453	62%	3.16	4,710	523
SB-218	0.1400	670	94	11.57	43,464	62%	3.16	5,380	598
SB-28	2.0600	685	1,411	174.23	43,639	62%	3.14	6,065	674
SB-29	13.8000	540	7,455	920.43	44,559	63%	3.03	6,605	734
SB-31	15.3000	548	8,377	1,034.27	45,593	65%	2.91	7,153	795
SB-33	5.1000	395	2,013	248.55	45,842	65%	2.88	7,547	839
SB-43	15.2000	430	6,539	807.32	46,649	66%	2.78	7,978	886
SB-44	13.1000	454	5,951	734.76	47,384	67%	2.70	8,432	937
SB-45	15.7000	350	5,498	678.75	48,063	68%	2.62	8,782	976
SB-47	7.8000	599	4,670	576.54	48,639	69%	2.55	9,381	1,042
SB-83	26.0000	326	8,465	1,045.13	49,684	70%	2.43	9,706	1,078.5
SB-95	150.0000	87	13,067	1,613.32	51,298	73%	2.24	9,793	1,088
SB-98	24.0000	443	10,626	1,311.91	52,610	75%	2.09	10,236	1,137
SB-30	31.0000	802	24,853	3,068.41	55,678	79%	1.73	11,038	1,226
SB-46	26.0000	2,231	58,006	7,161.58	62,840	89%	0.90	13,269	1,474
SB-108	24.0000	379	9,086	1,121.84	63,961	91%	0.77	13,648	1,516
SB-97	22.0000	182	4,003	494.18	64,456	91.3%	0.71	13,830	1,537
SB-79	14.8000	370	5,477	676.25	65,132	92%	0.63	14,200	1,578
SB-93	13.7000	576	7,894	974.67	66,106	94%	0.52	14,776	1,642
SB-84	11.0000	466	5,124	632.65	66,739	95%	0.45	15,242	1,694
SB-8	6.1000	522	3,186	393.32	67,132	95%	0.40	15,764	1,752
SB-80	5.9000	223	1,316	162.50	67,295	95%	0.38	15,987	1,776
SB-130	4.9000	455	2,229	275.19	67,570	96%	0.35	16,442	1,827
SB-102	4.2000	963	4,045	499.42	68,070	96%	0.29	17,405	1,934
SB-78	3.8000	381	1,448	178.75	68,248	97%	0.27	17,786	1,976
SB-129	3.6000	261	939	115.97	68,364	97%	0.26	18,047	2,005
SB-201	3.6000	137	494	60.96	68,425	97%	0.25	18,184	2,020

APPENDIX B-12
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-13	3.1000	987	3,061	377.89	68,803	97%	0.21	19,171	2,130
SB-26	2.9000	87	251	31.02	68,834	98%	0.20	19,258	2,140
SB-211	2.5000	182	454	56.04	68,890	98%	0.20	19,440	2,160
SB-109	2.3000	1,071	2,464	304.23	69,194	98%	0.16	20,511	2,279
SB-32	1.6500	581	958	118.31	69,313	98%	0.15	21,092	2,344
SB-14	1.2600	1,873	2,360	291.40	69,604	99%	0.11	22,965	2,552
SB-135	1.1000	338	372	45.94	69,650	99%	0.11	23,303	2,589
SB-206	1.0000	946	946	116.85	69,767	99%	0.09	24,250	2,694
SB-139	0.9300	461	429	52.93	69,820	99%	0.09	24,711	2,746
SB-24	0.9200	1,515	1,394	172.05	69,992	99%	0.07	26,225	2,914
SB-88	0.9000	794	714	88.18	70,080	99%	0.06	27,019	3,002
SB-131	0.8800	744	655	80.83	70,161	99%	0.05	27,763	3,085
TSB-27	0.8800	771	678	83.76	70,245	100%	0.04	28,534	3,170
SB-207	0.8000	589	471	58.13	70,303	100%	0.03	29,123	3,236
SB-140	0.5900	377	222	27.46	70,330	100%	0.03	29,499	3,278
SB-133	0.3800	371	141	17.40	70,348	100%	0.03	29,870	3,319
SB-138	0.3100	494	153	18.90	70,367	99.7%	0.02	30,364	3,374
SB-200	0.2600	187	49	6.01	70,373	100%	0.02	30,551	3,395
SB-17	0.2500	645	161	19.91	70,392	100%	0.02	31,196	3,466
SB-196	0.2300	447	103	12.69	70,405	100%	0.02	31,643	3,516
SB-198	0.2100	160	34	4.15	70,409	100%	0.02	31,803	3,534
SB-89	0.1920	213	41	5.04	70,414	100%	0.02	32,016	3,557
SB-217	0.1900	392	74	9.19	70,424	100%	0.02	32,408	3,601
SB-136	0.1360	667	91	11.20	70,435	100%	0.02	33,075	3,675
SB-106	0.1310	785	103	12.69	70,447	100%	0.01	33,860	3,762
SB-P	0.1300	210	27	3.37	70,451	100%	0.01	34,070	3,786
SB-20	0.1170	616	72	8.89	70,460	100%	0.01	34,685	3,854
SB-128	0.1110	253	28	3.46	70,463	100%	0.01	34,938	3,882
SB-194	0.0840	181	15	1.88	70,465	100%	0.01	35,119	3,902
SB-34	0.0790	365	29	3.56	70,469	100%	0.01	35,484	3,943
SB-90	0.0790	647	51	6.32	70,475	100%	0.01	36,132	4,015
SB-208	0.0780	303	24	2.92	70,478	100%	0.01	36,435	4,048
TSB-11	0.0730	1,610	118	14.51	70,492	100%	0.01	38,045	4,227
SB-92	0.0720	831	60	7.38	70,500	100%	0.01	38,876	4,320
SB-11	0.0650	532	35	4.27	70,504	100%	0.01	39,408	4,379
SB-B	0.0610	31	2	0.23	70,504	100%	0.01	39,439	4,382
SB-58	0.0600	44	3	0.33	70,505	100%	0.01	39,483	4,387
SB-35	0.0540	406	22	2.71	70,507	100%	0.01	39,889	4,432
SB-141	0.0420	1,025	43	5.31	70,513	100%	0.01	40,914	4,546
SB-210	0.0390	144	6	0.69	70,513	100%	0.01	41,058	4,562
SB-143	0.0380	879	33	4.12	70,517	100%	0.01	41,936	4,660
SB-104	0.0350	2,055	72	8.88	70,526	100%	0.01	43,991	4,888
SB-C	0.0340	908	31	3.81	70,530	100%	0.01	44,899	4,989
SB-39	0.0330	387	13	1.58	70,532	100%	0.01	45,286	5,032
SB-Q	0.0320	615	20	2.43	70,534	100%	0.00	45,901	5,100
SB-142	0.0300	421	13	1.56	70,536	100%	0.00	46,322	5,147
SB-132	0.0270	539	15	1.80	70,537	100%	0.00	46,861	5,207
TSB-28	0.0270	1,910	52	6.37	70,544	100%	0.00	48,771	5,419

APPENDIX B-12
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 2-5 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 2-5 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-36	0.0250	1,130	28	3.49	70,547	100%	0.00	49,901	5,545
SB-42	0.0214	1,112	24	2.94	70,550	100%	0.00	51,013	5,668
TSB-5	0.0200	1,915	38	4.73	70,555	100%	0.00	52,928	5,881
SB-190	0.0190	195	4	0.46	70,555	100%	0.00	53,123	5,903
SB-127	0.0185	560	10	1.28	70,557	100%	0.00	53,683	5,965
SB-185	0.0170	270	5	0.57	70,557	100%	0.00	53,954	5,995
SB-85	0.0162	315	5	0.63	70,558	100%	0.00	54,269	6,030
SB-209	0.0160	267	4	0.53	70,558	100%	0.00	54,536	6,060
SB-134	0.0141	185	3	0.32	70,559	100%	0.00	54,721	6,080
SB-49	0.0138	2,868	40	4.89	70,564	100%	0.00	57,589	6,399
SB-126	0.0129	727	9	1.16	70,565	100%	0.00	58,315	6,479
TSB-2	0.0127	2,184	28	3.42	70,568	100%	0.00	60,499	6,722
SB-96	0.0098	618	6	0.75	70,569	100%	0.00	61,117	6,791
SB-202	0.0095	157	1	0.18	70,569	100%	0.00	61,275	6,808
TSB-1	0.0086	1,723	15	1.83	70,571	100%	0.00	62,998	7,000
SB-101	0.0076	2,503	19	2.35	70,573	100%	0.00	65,501	7,278
SB-181	0.0035	2,424	8	1.05	70,574	100%	0.00	67,924	7,547
SB-195	0.0029	801	2	0.29	70,575	100%	0.00	68,725	7,636
SB-10	0.0024	865	2	0.26	70,575	100%	0.00	69,590	7,732
ND	0.0000	0	0	0.00	70,575	100%	0.00	69,590	7,732
ND	0.0000	0	0	0.00	70,575	100%	0.00	69,590	7,732
ND	0.0000	0	0	0.00	70,575	100%	0.00	69,590	7,732
ND	0.0000	0	0	0.00	70,575	100%	0.00	69,590	7,732
ND	0.0000	0	0.000	0.00	70,575	100%		69,590	7,732
Total		69,590	571,632	70,575					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-13
AREA-WEIGHTED AVERAGE DETAILS
α-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

α-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				150			0.040		
SB-105	0.1100	451	50	4.11	4	3%	0.039	451	33
SB-12	0.0120	63	1	0.06	4	3%	0.039	514	38
SB-150	1.7000	149	253	20.92	25	17%	0.033	663	49
SB-151	2.2000	155	341	28.25	53	36%	0.026	818	61
SB-154	0.0620 U	220	14	1.13	54	36%	0.025	1,038	77
SB-16	0.0120 I	90	1	0.09	55	36%	0.025	1,128	84
SB-186	0.4700	129	61	5.04	60	40%	0.024	1,257	93
SB-187	0.0037 U	110	0	0.03	60	40%	0.024	1,368	101
SB-188	0.0510	141	7	0.60	60	40%	0.024	1,509	112
SB-189	0.0036 U	154	1	0.05	60	40%	0.024	1,663	123
SB-197	0.1900	206	39	3.24	64	42%	0.023	1,869	138
SB-199	0.3300	166	55	4.52	68	45%	0.022	2,034	151
SB-205	0.0490	24	1	0.10	68	45%	0.022	2,059	152
SB-212	0.0340 U	216	7	0.61	69	46%	0.022	2,275	169
SB-216	0.0980	424	42	3.44	72	48%	0.021	2,699	200
SB-218	0.0200	833	17	1.38	74	49%	0.020	3,532	262
SB-219	0.0110	292	3	0.27	74	49%	0.020	3,824	283
SB-28	0.0175 K	685	12	0.99	75	50%	0.020	4,510	334
SB-29	0.0790	550	43	3.60	78	52%	0.019	5,060	375
SB-83	0.6400	440	282	23.32	102	68%	0.013	5,500	407
SB-97	0.1700	216	37	3.05	105	70%	0.012	5,717	423
SB-211	0.1300	615	80	6.62	111	74%	0.010	6,332	469
SB-201	0.0950	137	13	1.08	112	75%	0.010	6,469	479
SB-13	0.0899 K	571	51	4.25	117	78%	0.009	7,040	521
SB-32	0.0850 K	581	49	4.09	121	80%	0.008	7,621	565
SB-98	0.0720 I	543	39	3.24	124	83%	0.007	8,164	605
SB-P	0.0660 I	210	14	1.15	125	83%	0.007	8,374	620
SB-20	0.0620	616	38	3.16	128	85%	0.006	8,990	666
SB-84	0.0450 I	466	21	1.73	130	87%	0.005	9,456	700
SB-Q	0.0440	668	29	2.43	133	88%	0.005	10,123	750
SB-95	0.0440	87	4	0.32	133	88%	0.005	10,211	756
SB-206	0.0270	1,264	34	2.82	136	90%	0.004	11,475	850
SB-153	0.0230	344	8	0.65	136	91%	0.004	11,818	875
SB-190	0.0230	195	4	0.37	137	91%	0.004	12,013	890
SB-80	0.0195 K	223	4	0.36	137	91%	0.003	12,236	906
SB-33	0.0175 K	395	7	0.57	138	92%	0.003	12,631	936
SB-78	0.0170 K	381	6	0.54	138	92%	0.003	13,012	964
SB-45	0.0170 K	260	4	0.37	139	92%	0.003	13,272	983
SB-B	0.0155 K	31	0	0.04	139	92%	0.003	13,303	985
SB-8	0.0140	522	7	0.61	139	93%	0.003	13,825	1,024
SB-31	0.0130 I	548	7	0.59	140	93%	0.003	14,372	1,065
SB-58	0.0100 I	44	0	0.04	140	93%	0.003	14,417	1,068
SB-48	0.0085 I	889	8	0.63	140	93%	0.003	15,305	1,134

APPENDIX B-13
AREA-WEIGHTED AVERAGE DETAILS
α-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

α-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-213	0.0084	349	3	0.24	141	94%	0.003	15,654	1,160
SB-152	0.0063 I	317	2	0.17	141	94%	0.002	15,971	1,183
SB-202	0.0056	157	1	0.07	141	94%	0.002	16,128	1,195
SB-198	0.0056	160	1	0.07	141	94%	0.002	16,288	1,207
SB-C	0.0055 I	908	5	0.41	141	94%	0.002	17,196	1,274
SB-106	0.0051 I	1,722	9	0.73	142	95%	0.002	18,918	1,401
SB-210	0.0043	144	1	0.05	142	95%	0.002	19,062	1,412
SB-21	0.0040 U	1,123	4	0.37	143	95%	0.002	20,185	1,495
SB-96	0.0039 U	699	3	0.23	143	95%	0.002	20,884	1,547
SB-25	0.0039 U	1,393	5	0.45	143	95%	0.002	22,277	1,650
SB-99	0.0039 U	1,320	5	0.43	144	96%	0.002	23,597	1,748
SB-30	0.0039 U	802	3	0.26	144	96%	0.002	24,398	1,807
SB-209	0.0039 U	262	1	0.08	144	96%	0.002	24,660	1,827
SB-92	0.0038 U	831	3	0.26	144	96%	0.002	25,491	1,888
SB-14	0.0038 U	1,873	7	0.59	145	96%	0.001	27,364	2,027
SB-47	0.0038 U	354	1	0.11	145	96%	0.001	27,718	2,053
SB-185	0.0038 U	245	1	0.08	145	97%	0.001	27,963	2,071
SB-208	0.0038 U	188	1	0.06	145	97%	0.001	28,150	2,085
SB-10	0.0038 U	1,175	4	0.37	145	97%	0.001	29,325	2,172
SB-11	0.0038 U	565	2	0.18	146	97%	0.001	29,890	2,214
SB-102	0.0037 U	1,019	4	0.31	146	97%	0.001	30,909	2,290
SB-108	0.0037 U	496	2	0.15	146	97%	0.001	31,405	2,326
SB-27	0.0036 U	548	2	0.16	146	97%	0.001	31,953	2,367
SB-87	0.0036 U	101	0	0.03	146	97%	0.001	32,054	2,374
SB-46	0.0036 U	2,055	7	0.61	147	98%	0.001	34,109	2,527
SB-103	0.0036 U	1,830	7	0.55	147	98%	0.001	35,939	2,662
SB-109	0.0036 U	1,656	6	0.49	148	98%	0.001	37,595	2,785
SB-35	0.0036 U	996	4	0.30	148	99%	0.001	38,591	2,859
SB-195	0.0036 U	767	3	0.23	148	99%	0.000	39,359	2,915
SB-196	0.0036 U	447	2	0.13	149	99%	0.000	39,805	2,949
SB-217	0.0036 U	392	1	0.12	149	99%	0.000	40,197	2,978
SB-203	0.0035	155	1	0.04	149	99%	0.000	40,352	2,989
SB-191	0.0035 U	123	0	0.04	149	99%	0.000	40,476	2,998
SB-192	0.0035 U	110	0	0.03	149	99%	0.000	40,585	3,006
SB-194	0.0035	173	1	0.05	149	99%	0.000	40,758	3,019
SB-49	0.0035 U	2,490	9	0.72	150	100%	0.000	43,249	3,204
SB-34	0.0035 U	408	1	0.12	150	100%	0.000	43,657	3,234
SB-26	0.0035 U	87	0	0.03	150	100%	0.000	43,744	3,240
SB-193	0.0034 U	126	0	0.04	150	100%	0.000	43,870	3,250
SB-200	0.0034 U	187	1	0.05	150	100%	0.000	44,057	3,264
SB-24	0.0033 U	1,515	5	0.41	150	100%	0.000	45,572	3,376
ND	0.0000	0	0	0.00	150	100%		45,572	3,376
Total		45,572	1,815	150					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-14
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				248			0.030		
SB-105	0.2100	451	95	7.84	8	3%	0.029	451	33
SB-12	0.1400	63	9	0.73	9	3%	0.029	514	38
SB-150	0.9100	149	135	11.20	20	8%	0.028	663	49
SB-151	2.5000	155	388	32.10	52	21%	0.024	818	61
SB-154	0.2900	220	64	5.29	57	23%	0.023	1,038	77
SB-16	0.1700	90	15	1.26	58	24%	0.023	1,128	84
SB-186	0.7900	129	102	8.46	67	27%	0.022	1,257	93
SB-187	0.0023 U	110	0	0.02	67	27%	0.022	1,368	101
SB-188	0.0023 U	141	0	0.03	67	27%	0.022	1,509	112
SB-189	0.0022 U	154	0	0.03	67	27%	0.022	1,663	123
SB-197	0.2800	206	58	4.77	72	29%	0.022	1,869	138
SB-199	0.2100	166	35	2.88	75	30%	0.021	2,034	151
SB-204	0.1200	115	14	1.14	76	31%	0.021	2,149	159
SB-205	0.4600	24	11	0.93	77	31%	0.021	2,173	161
SB-212	0.0210 U	216	5	0.38	77	31%	0.021	2,390	177
SB-214	0.2400	293	70	5.82	83	33%	0.020	2,683	199
SB-215	0.1800	283	51	4.21	87	35%	0.020	2,965	220
SB-216	1.0000	424	424	35.10	122	49%	0.015	3,390	251
SB-218	0.2100	833	175	14.48	137	55%	0.014	4,223	313
SB-219	0.1800	292	53	4.35	141	57%	0.013	4,515	334
SB-28	0.0105 K	685	7	0.60	142	57%	0.013	5,200	385
SB-29	0.0105 K	550	6	0.48	142	57%	0.013	5,750	426
SB-83	0.0110 K	440	5	0.40	142	57%	0.013	6,190	459
SB-97	0.0023 U	216	0	0.04	143	57%	0.013	6,407	475
TSB-18	0.2600	1,361	354	29.29	172	69%	0.009	7,768	575
SB-80	0.2000	223	45	3.69	176	71%	0.009	7,991	592
SB-P	0.1300	210	27	2.26	178	72%	0.009	8,201	608
SB-87	0.1200	101	12	1.00	179	72%	0.009	8,302	615
SB-152	0.0890	317	28	2.34	181	73%	0.008	8,619	638
SB-20	0.0820	616	50	4.18	185	75%	0.008	9,235	684
SB-190	0.0740	195	14	1.19	186	75%	0.008	9,430	698
SB-203	0.0650	155	10	0.84	187	75%	0.007	9,585	710
SB-194	0.0620	173	11	0.89	188	76%	0.007	9,758	723
SB-18	0.0610	72	4	0.36	189	76%	0.007	9,830	728
SB-211	0.0580	615	36	2.95	192	77%	0.007	10,445	774
SB-13	0.0558 K	571	32	2.64	194	78%	0.007	11,016	816
SB-96	0.0520	699	36	3.01	197	79%	0.006	11,716	868
SB-32	0.0500 K	581	29	2.40	200	80%	0.006	12,297	911
SB-213	0.0470	349	16	1.36	201	81%	0.006	12,645	937
SB-201	0.0460 U	137	6	0.52	201	81%	0.006	12,782	947
SB-Q	0.0400	668	27	2.21	204	82%	0.005	13,450	996
SB-23	0.0360	2,534	91	7.55	211	85%	0.005	15,984	1,184
SB-22	0.0360	977	35	2.91	214	86%	0.004	16,960	1,256
SB-11	0.0340	565	19	1.59	216	87%	0.004	17,526	1,298

APPENDIX B-14
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-191	0.0310	123	4	0.32	216	87%	0.004	17,649	1,307
SB-217	0.0300	392	12	0.97	217	87%	0.004	18,040	1,336
SB-19	0.0280	638	18	1.48	218	88%	0.004	18,678	1,384
SB-58	0.0270	44	1	0.10	219	88%	0.004	18,722	1,387
SB-153	0.0240	344	8	0.68	219	88%	0.004	19,066	1,412
SB-202	0.0220	157	3	0.29	220	88%	0.004	19,224	1,424
SB-92	0.0200	831	17	1.37	221	89%	0.003	20,055	1,486
SB-21	0.0200	1,123	22	1.86	223	90%	0.003	21,178	1,569
SB-106	0.0180	1,722	31	2.57	225	91%	0.003	22,900	1,696
SB-210	0.0180	144	3	0.21	226	91%	0.003	23,043	1,707
SB-39	0.0150	387	6	0.48	226	91%	0.003	23,431	1,736
SB-95	0.0150	87	1	0.11	226	91%	0.003	23,518	1,742
SB-10	0.0130	1,175	15	1.26	227	92%	0.003	24,693	1,829
SB-198	0.0130	160	2	0.17	228	92%	0.003	24,853	1,841
SB-84	0.0115 K	466	5	0.44	228	92%	0.002	25,318	1,875
SB-192	0.0110	110	1	0.10	228	92%	0.002	25,428	1,884
SB-17	0.0110	645	7	0.59	229	92%	0.002	26,073	1,931
SB-33	0.0110 K	395	4	0.36	229	92%	0.002	26,468	1,961
SB-98	0.0105 K	543	6	0.47	230	92%	0.002	27,011	2,001
SB-78	0.0105 K	381	4	0.33	230	93%	0.002	27,392	2,029
SB-45	0.0105 K	260	3	0.23	230	93%	0.002	27,652	2,048
SB-108	0.0099	496	5	0.41	231	93%	0.002	28,148	2,085
SB-B	0.0095 K	31	0	0.02	231	93%	0.002	28,178	2,087
SB-196	0.0078	447	3	0.29	231	93%	0.002	28,625	2,120
SB-14	0.0072 I	1,873	13	1.12	232	93%	0.002	30,499	2,259
SB-35	0.0069 I	996	7	0.57	233	94%	0.002	31,495	2,333
SB-40	0.0068 I	1,096	7	0.62	233	94%	0.002	32,591	2,414
SB-38	0.0065 I	1,114	7	0.60	234	94%	0.002	33,705	2,497
TSB-26	0.0063 K	1,069	7	0.55	234	94%	0.002	34,773	2,576
SB-8	0.0061 K	522	3	0.26	235	94%	0.002	35,296	2,614
TSB-9	0.0047	2,600	12	1.01	236	95%	0.002	37,895	2,807
SB-103	0.0045 I	1,830	8	0.68	236	95%	0.001	39,726	2,943
TSB-15	0.0040	1,594	6	0.53	237	95%	0.001	41,320	3,061
SB-102	0.0032 I	1,019	3	0.27	237	95%	0.001	42,339	3,136
SB-195	0.0027	767	2	0.17	237	96%	0.001	43,106	3,193
SB-27	0.0026 I	548	1	0.12	237	96%	0.001	43,654	3,234
TSB-29	0.0026	1,946	5	0.42	238	96%	0.001	45,600	3,378
SB-101	0.0026 I	2,745	7	0.59	238	96%	0.001	48,345	3,581
TSB-31	0.0025 U	2,322	6	0.48	239	96%	0.001	50,667	3,753
TSB-25	0.0025 U	1,639	4	0.34	239	96%	0.001	52,306	3,875
TSB-27	0.0025 K	771	2	0.16	239	96%	0.001	53,077	3,932
TSB-30	0.0025 U	1,984	5	0.41	240	97%	0.001	55,061	4,079
TSB-14	0.0025 U	1,970	5	0.41	240	97%	0.001	57,031	4,225
TSB-5	0.0025 U	1,915	5	0.40	241	97%	0.001	58,946	4,366
TSB-28	0.0025 U	1,910	5	0.40	241	97%	0.001	60,856	4,508

APPENDIX B-14
AREA-WEIGHTED AVERAGE DETAILS
β-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

β-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
TSB-1	0.0025 U	1,723	4	0.36	241	97%	0.001	62,579	4,635
TSB-10	0.0025 U	1,616	4	0.33	242	97%	0.001	64,195	4,755
TSB-11	0.0025 U	1,610	4	0.33	242	97%	0.001	65,806	4,874
TSB-19	0.0025 U	1,609	4	0.33	242	98%	0.001	67,415	4,994
TSB-23	0.0025 U	1,593	4	0.33	243	98%	0.001	69,008	5,112
TSB-16	0.0025 U	1,590	4	0.33	243	98%	0.001	70,598	5,230
TSB-24	0.0025 U	1,460	4	0.30	243	98%	0.001	72,059	5,338
TSB-20	0.0025 U	1,407	4	0.29	244	98%	0.001	73,466	5,442
TSB-22	0.0025 U	1,278	3	0.26	244	98%	0.001	74,744	5,537
SB-184	0.0025 U	3,008	8	0.62	244	98%	0.000	77,752	5,759
SB-99	0.0024 U	1,320	3	0.26	245	99%	0.000	79,072	5,857
SB-93	0.0024 U	815	2	0.16	245	99%	0.000	79,886	5,918
SB-30	0.0024 U	802	2	0.16	245	99%	0.000	80,688	5,977
SB-209	0.0024 U	262	1	0.05	245	99%	0.000	80,950	5,996
SB-185	0.0024 U	245	1	0.05	245	99%	0.000	81,194	6,014
SB-104	0.0023 U	2,225	5	0.42	246	99%	0.000	83,420	6,179
SB-42	0.0023 U	2,060	5	0.39	246	99%	0.000	85,480	6,332
SB-C	0.0023 U	908	2	0.17	246	99%	0.000	86,387	6,399
SB-44	0.0023 U	828	2	0.16	246	99%	0.000	87,216	6,460
SB-47	0.0023 U	354	1	0.07	246	99%	0.000	87,570	6,487
SB-208	0.0023 U	188	0	0.04	246	99%	0.000	87,757	6,501
SB-109	0.0022 U	1,656	4	0.30	247	99%	0.000	89,413	6,623
SB-100	0.0022 U	1,220	3	0.22	247	99%	0.000	90,632	6,714
SB-43	0.0022 U	1,212	3	0.22	247	100%	0.000	91,844	6,803
SB-37	0.0022 U	1,040	2	0.19	247	100%	0.000	92,884	6,880
SB-36	0.0022 U	755	2	0.14	247	100%	0.000	93,639	6,936
SB-193	0.0021 U	126	0	0.02	247	100%	0.000	93,766	6,946
SB-24	0.0021 U	1,515	3	0.26	248	100%	0.000	95,280	7,058
SB-15	0.0021 U	1,420	3	0.25	248	100%	0.000	96,701	7,163
SB-34	0.0021 U	408	1	0.07	248	100%	0.000	97,109	7,193
SB-206	0.0021 U	1,264	3	0.22	248	100%	0.000	98,373	7,287
SB-200	0.0021 U	187	0	0.03	248	100%	0.000	98,560	7,301
ND	0.0000	0	0	0.00	248	100%	0.000	98,560	7,301
ND	0.0000	0	0	0.00	248	100%	0.000	98,560	7,301
ND	0.0000	0	0	0.00	248	100%	0.000	98,560	7,301
ND	0.0000	0	0	0.00	248	100%	0.000	98,560	7,301
ND	0.0000	0	0	0.00	248	100%		98,560	7,301
Total		98,560	3,000	248					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-15
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				336			0.052		
SB-105	0.2600	451	117	9.71	10	3%	0.051	451	33
SB-12	0.0320	63	2	0.17	10	3%	0.051	514	38
SB-150	0.7000	149	104	8.61	18	6%	0.049	663	49
SB-151	0.6800	155	106	8.73	27	8%	0.048	818	61
SB-154	0.1300 I	220	29	2.37	30	9%	0.048	1,038	77
SB-16	0.0460	90	4	0.34	30	9%	0.048	1,128	84
SB-186	2.0000	129	259	21.43	51	15%	0.044	1,257	93
SB-187	2.3000 K	110	253	20.97	72	22%	0.041	1,368	101
SB-188	0.2000	141	28	2.34	75	22%	0.041	1,509	112
SB-189	1.5000	154	231	19.12	94	28%	0.038	1,663	123
SB-197	0.3700	206	76	6.30	100	30%	0.037	1,869	138
SB-199	0.4500	166	75	6.17	106	32%	0.036	2,034	151
SB-204	0.0029 U	115	0	0.03	106	32%	0.036	2,149	159
SB-205	0.1500	24	4	0.30	107	32%	0.036	2,173	161
SB-212	5.0000	216	1,082	89.54	196	58%	0.022	2,390	177
SB-214	0.0054	293	2	0.13	196	58%	0.022	2,683	199
SB-215	0.0078 K	283	2	0.18	196	59%	0.022	2,965	220
SB-216	0.5000	424	212	17.55	214	64%	0.019	3,390	251
SB-218	0.0450	833	38	3.10	217	65%	0.018	4,223	313
SB-219	0.0210	292	6	0.51	218	65%	0.018	4,515	334
SB-28	0.0130 K	685	9	0.74	218	65%	0.018	5,200	385
SB-29	0.0130 K	550	7	0.59	219	65%	0.018	5,750	426
SB-83	0.4800	440	211	17.49	236	70%	0.015	6,190	459
SB-97	0.0028 U	216	1	0.05	236	70%	0.015	6,407	475
SB-98	0.7700	543	418	34.62	271	81%	0.010	6,950	515
SB-58	0.1300	44	6	0.48	272	81%	0.010	6,994	518
SB-211	0.1200	615	74	6.11	278	83%	0.009	7,609	564
SB-47	0.1200	354	42	3.51	281	84%	0.008	7,963	590
SB-20	0.0760 K	616	47	3.87	285	85%	0.008	8,579	635
SB-13	0.0682 K	571	39	3.23	288	86%	0.007	9,150	678
SB-32	0.0650 K	581	38	3.12	291	87%	0.007	9,731	721
SB-201	0.0560 U	137	8	0.64	292	87%	0.007	9,868	731
SB-87	0.0560	101	6	0.47	293	87%	0.007	9,969	738
SB-153	0.0490	344	17	1.39	294	88%	0.006	10,313	764
SB-217	0.0400	392	16	1.30	295	88%	0.006	10,704	793
SB-45	0.0400	260	10	0.86	296	88%	0.006	10,964	812
SB-14	0.0320	1,873	60	4.96	301	90%	0.005	12,838	951
SB-Q	0.0310	668	21	1.71	303	90%	0.005	13,505	1,000
SB-44	0.0280	828	23	1.92	305	91%	0.005	14,334	1,062
SB-104	0.0270	2,225	60	4.97	310	92%	0.004	16,559	1,227
SB-35	0.0200	996	20	1.65	311	93%	0.004	17,555	1,300
SB-210	0.0190	144	3	0.23	312	93%	0.004	17,698	1,311
SB-26	0.0180 K	87	2	0.13	312	93%	0.004	17,785	1,317
SB-92	0.0170	831	14	1.17	313	93%	0.004	18,616	1,379
SB-8	0.0170	522	9	0.73	314	93%	0.003	19,138	1,418
SB-193	0.0150 K	126	2	0.16	314	93%	0.003	19,264	1,427
SB-84	0.0145 K	466	7	0.56	314	94%	0.003	19,730	1,462

APPENDIX B-15
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-80	0.0145 K	223	3	0.27	315	94%	0.003	19,953	1,478
SB-213	0.0140	349	5	0.40	315	94%	0.003	20,302	1,504
SB-198	0.0140	160	2	0.19	315	94%	0.003	20,462	1,516
SB-P	0.0135 K	210	3	0.23	315	94%	0.003	20,672	1,531
SB-33	0.0135 K	395	5	0.44	316	94%	0.003	21,067	1,561
SB-190	0.0130	195	3	0.21	316	94%	0.003	21,262	1,575
SB-95	0.0130	87	1	0.09	316	94%	0.003	21,349	1,581
SB-78	0.0130 K	381	5	0.41	317	94%	0.003	21,730	1,610
SB-B	0.0120 K	31	0	0.03	317	94%	0.003	21,760	1,612
SB-152	0.0110 I	317	3	0.29	317	94%	0.003	22,077	1,635
SB-40	0.0110 I	1,096	12	1.00	318	95%	0.003	23,173	1,717
SB-194	0.0100 K	173	2	0.14	318	95%	0.003	23,346	1,729
SB-10	0.0100	1,175	12	0.97	319	95%	0.003	24,521	1,816
SB-39	0.0086 I	387	3	0.28	319	95%	0.003	24,908	1,845
SB-18	0.0084 I	72	1	0.05	319	95%	0.003	24,980	1,850
SB-96	0.0081 I	699	6	0.47	320	95%	0.002	25,680	1,902
SB-21	0.0077 I	1,123	9	0.72	320	96%	0.002	26,803	1,985
SB-192	0.0074	110	1	0.07	321	96%	0.002	26,912	1,994
SB-101	0.0072 I	2,745	20	1.64	322	96%	0.002	29,657	2,197
SB-30	0.0070 I	802	6	0.46	323	96%	0.002	30,459	2,256
SB-184	0.0068	3,008	20	1.69	324	97%	0.002	33,467	2,479
SB-38	0.0067 I	1,114	7	0.62	325	97%	0.002	34,581	2,562
SB-19	0.0061 I	638	4	0.32	325	97%	0.002	35,219	2,609
SB-191	0.0058	123	1	0.06	325	97%	0.002	35,342	2,618
SB-106	0.0054 I	1,722	9	0.77	326	97%	0.001	37,064	2,746
SB-11	0.0047 I	565	3	0.22	326	97%	0.001	37,630	2,787
SB-202	0.0043	157	1	0.06	326	97%	0.001	37,787	2,799
SB-23	0.0039 I	2,534	10	0.82	327	98%	0.001	40,321	2,987
SB-C	0.0034 I	908	3	0.26	327	98%	0.001	41,229	3,054
SB-31	0.0030 U	548	2	0.14	328	98%	0.001	41,776	3,095
SB-93	0.0030 U	815	2	0.20	328	98%	0.001	42,591	3,155
SB-25	0.0029 U	1,393	4	0.33	328	98%	0.001	43,984	3,258
SB-99	0.0029 U	1,320	4	0.32	328	98%	0.001	45,303	3,356
SB-209	0.0029 U	262	1	0.06	328	98%	0.001	45,565	3,375
SB-185	0.0029 U	245	1	0.06	329	98%	0.001	45,810	3,393
SB-208	0.0029 U	188	1	0.05	329	98%	0.001	45,997	3,407
SB-102	0.0028 U	1,019	3	0.24	329	98%	0.001	47,017	3,483
SB-27	0.0028 U	548	2	0.13	329	98%	0.001	47,565	3,523
SB-108	0.0028 U	496	1	0.11	329	98%	0.001	48,061	3,560
SB-42	0.0028 U	2,060	6	0.48	330	98%	0.001	50,121	3,713
SB-103	0.0028 U	1,830	5	0.42	330	98%	0.001	51,951	3,848
SB-109	0.0028 U	1,656	5	0.38	330	98%	0.001	53,607	3,971
SB-43	0.0028 U	1,212	3	0.28	331	99%	0.001	54,819	4,061
SB-48	0.0028 U	889	2	0.21	331	99%	0.001	55,707	4,126
SB-17	0.0028 U	645	2	0.15	331	99%	0.001	56,352	4,174
SB-203	0.0027 U	155	0	0.03	331	99%	0.001	56,508	4,186
SB-46	0.0027 U	2,055	6	0.46	331	99%	0.001	58,563	4,338
SB-88	0.0027 U	1,816	5	0.41	332	99%	0.001	60,378	4,472

APPENDIX B-15
AREA-WEIGHTED AVERAGE DETAILS
δ-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

δ-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-100	0.0027 U	1,220	3	0.27	332	99%	0.001	61,598	4,563
SB-37	0.0027 U	1,040	3	0.23	332	99%	0.000	62,638	4,640
SB-22	0.0027 U	977	3	0.22	333	99%	0.000	63,614	4,712
SB-36	0.0027 U	755	2	0.17	333	99%	0.000	64,370	4,768
SB-195	0.0027 U	767	2	0.17	333	99%	0.000	65,137	4,825
SB-196	0.0027 U	447	1	0.10	333	99%	0.000	65,584	4,858
SB-2	0.0026 U	626	2	0.14	333	99%	0.000	66,210	4,904
SB-34	0.0026 U	408	1	0.09	333	99%	0.000	66,618	4,935
SB-200	0.0026 U	187	0	0.04	333	99%	0.000	66,806	4,949
TSB-18	0.0025 U	1,361	3	0.28	334	99%	0.000	68,167	5,049
TSB-9	0.0025 U	2,600	6	0.54	334	100%	0.000	70,767	5,242
TSB-1	0.0025 U	1,723	4	0.36	334	100%	0.000	72,489	5,370
SB-24	0.0025 U	1,515	4	0.31	335	100%	0.000	74,004	5,482
SB-15	0.0025 U	1,420	4	0.29	335	100%	0.000	75,424	5,587
TSB-27	0.0025 K	771	2	0.16	335	100%	0.000	76,195	5,644
SB-206	0.0025 U	1,264	3	0.26	336	100%	0.000	77,459	5,738
ND	0.0000	0	0	0.00	336	100%	0.000	77,459	5,738
ND	0.0000	0	0	0.00	336	100%	0.000	77,459	5,738
ND	0.0000	0	0	0.00	336	100%	0.000	77,459	5,738
ND	0.0000	0	0	0.00	336	100%		77,459	5,738
Total		77,459	4,054	336					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-16
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No excavation				546			0.090		
SB-105	0.1200	451	54	4.48	4	1%	0.090	451	33
SB-12	0.0180	63	1	0.09	5	1%	0.090	514	38
SB-150	21.0000	149	3,122	258.39	263	48%	0.047	663	49
SB-151	0.7600	155	118	9.76	273	50%	0.045	818	61
SB-154	0.0130 U	220	3	0.24	273	50%	0.045	1,038	77
SB-16	0.0350	90	3	0.26	273	50%	0.045	1,128	84
SB-186	0.7500	129	97	8.03	281	52%	0.044	1,257	93
SB-187	1.1000	110	121	10.03	291	53%	0.042	1,368	101
SB-188	0.9600	141	136	11.23	303	55%	0.040	1,509	112
SB-189	1.9000	154	293	24.22	327	60%	0.036	1,663	123
SB-197	0.0078 U	206	2	0.13	327	60%	0.036	1,869	138
SB-199	0.0077 U	166	1	0.11	327	60%	0.036	2,034	151
SB-204	0.0140	115	2	0.13	327	60%	0.036	2,149	159
SB-205	0.3200	24	8	0.64	328	60%	0.036	2,173	161
SB-212	0.0071 U	216	2	0.13	328	60%	0.036	2,390	177
SB-214	0.0110	293	3	0.27	328	60%	0.036	2,683	199
SB-215	0.0410	283	12	0.96	329	60%	0.036	2,965	220
SB-216	0.0830 K	424	35	2.91	332	61%	0.035	3,390	251
SB-218	0.0410	833	34	2.83	335	61%	0.035	4,223	313
SB-219	0.0093	292	3	0.22	335	61%	0.035	4,515	334
SB-28	0.3400	685	233	19.29	354	65%	0.032	5,200	385
SB-29	1.1000	550	605	50.09	404	74%	0.023	5,750	426
SB-83	0.2700	440	119	9.84	414	76%	0.022	6,190	459
SB-97	0.1200	216	26	2.15	416	76%	0.021	6,407	475
SB-32	0.6300	581	366	30.28	447	82%	0.016	6,988	518
SB-201	0.4100	137	56	4.65	451	83%	0.016	7,125	528
SB-48	0.1800	889	160	13.24	465	85%	0.013	8,013	594
SB-25	0.1500	1,393	209	17.29	482	88%	0.011	9,406	697
SB-46	0.1200	2,055	247	20.41	502	92%	0.007	11,461	849
SB-45	0.1100	260	29	2.37	505	92%	0.007	11,721	868
SB-31	0.0860	548	47	3.90	509	93%	0.006	12,269	909
SB-33	0.0830	395	33	2.71	511	94%	0.006	12,664	938
SB-92	0.0670	831	56	4.61	516	95%	0.005	13,494	1,000
TSB-18	0.0460	1,361	63	5.18	521	95%	0.004	14,856	1,100
SB-44	0.0460	828	38	3.15	524	96%	0.004	15,684	1,162
SB-20	0.0440	616	27	2.24	526	96%	0.003	16,299	1,207
SB-30	0.0430	802	34	2.85	529	97%	0.003	17,101	1,267
SB-190	0.0280	195	5	0.45	530	97%	0.003	17,296	1,281
SB-34	0.0280	408	11	0.95	531	97%	0.002	17,705	1,311
SB-152	0.0240 K	317	8	0.63	531	97%	0.002	18,022	1,335
SB-211	0.0190	615	12	0.97	532	98%	0.002	18,637	1,380
SB-13	0.0186 K	571	11	0.88	533	98%	0.002	19,208	1,423
SB-213	0.0130 K	349	5	0.38	534	98%	0.002	19,557	1,449
SB-19	0.0120	638	8	0.63	534	98%	0.002	20,195	1,496
TSB-9	0.0120	2,600	31	2.58	537	98%	0.001	22,794	1,688
SB-202	0.0110	157	2	0.14	537	98%	0.001	22,952	1,700
SB-17	0.0078	645	5	0.42	537	98%	0.001	23,597	1,748

APPENDIX B-16
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-104	0.0059	2,225	13	1.09	538	99%	0.001	25,822	1,913
SB-23	0.0044 K	2,534	11	0.92	539	99%	0.001	28,356	2,100
SB-80	0.0040 K	223	1	0.07	539	99%	0.001	28,579	2,117
SB-96	0.0040	699	3	0.23	540	99%	0.001	29,278	2,169
SB-22	0.0040	977	4	0.32	540	99%	0.001	30,255	2,241
SB-84	0.0039 K	466	2	0.15	540	99%	0.001	30,720	2,276
SB-P	0.0036 K	210	1	0.06	540	99%	0.001	30,931	2,291
SB-98	0.0036 K	543	2	0.16	540	99%	0.001	31,474	2,331
SB-78	0.0036 K	381	1	0.11	540	99%	0.001	31,855	2,360
SB-B	0.0033 K	31	0	0.01	540	99%	0.001	31,885	2,362
SB-21	0.0030 I	1,123	3	0.28	541	99%	0.001	33,008	2,445
SB-18	0.0029 I	72	0	0.02	541	99%	0.001	33,080	2,450
SB-194	0.0028	173	0	0.04	541	99%	0.001	33,253	2,463
TSB-27	0.0025 K	771	2	0.16	541	99%	0.001	34,024	2,520
TSB-14	0.0025 U	1,970	5	0.41	541	99%	0.001	35,994	2,666
TSB-5	0.0025 U	1,915	5	0.40	542	99%	0.001	37,910	2,808
TSB-1	0.0025 U	1,723	4	0.36	542	99%	0.001	39,632	2,936
TSB-10	0.0025 U	1,616	4	0.33	542	99%	0.001	41,248	3,055
TSB-19	0.0025 U	1,609	4	0.33	543	99%	0.000	42,858	3,175
SB-24	0.0025 U	1,515	4	0.31	543	100%	0.000	44,373	3,287
TSB-22	0.0025 U	1,278	3	0.26	543	100%	0.000	45,651	3,382
SB-106	0.0023 I	1,722	4	0.33	544	100%	0.000	47,373	3,509
SB-103	0.0022 I	1,830	4	0.33	544	100%	0.000	49,203	3,645
SB-8	0.0020 K	522	1	0.09	544	100%	0.000	49,726	3,683
SB-11	0.0020 I	565	1	0.09	544	100%	0.000	50,291	3,725
SB-39	0.0018 I	387	1	0.06	544	100%	0.000	50,678	3,754
SB-93	0.0008 U	815	1	0.05	544	100%	0.000	51,493	3,814
SB-99	0.0008 U	1,320	1	0.09	544	100%	0.000	52,812	3,912
SB-209	0.0008 U	262	0	0.02	544	100%	0.000	53,074	3,931
SB-58	0.0008 U	44	0	0.00	544	100%	0.000	53,118	3,935
SB-87	0.0008 U	101	0	0.01	544	100%	0.000	53,219	3,942
SB-10	0.0008 U	1,175	1	0.08	545	100%	0.000	54,393	4,029
SB-C	0.0008 U	908	1	0.06	545	100%	0.000	55,301	4,096
SB-47	0.0008 U	354	0	0.02	545	100%	0.000	55,655	4,123
SB-Q	0.0008 U	668	1	0.04	545	100%	0.000	56,323	4,172
SB-95	0.0008 U	87	0	0.01	545	100%	0.000	56,410	4,179
SB-108	0.0008 U	496	0	0.03	545	100%	0.000	56,906	4,215
SB-27	0.0008 U	548	0	0.03	545	100%	0.000	57,454	4,256
SB-153	0.0008 U	344	0	0.02	545	100%	0.000	57,798	4,281
SB-109	0.0008 U	1,656	1	0.10	545	100%	0.000	59,453	4,404
SB-43	0.0008 U	1,212	1	0.08	545	100%	0.000	60,665	4,494
SB-35	0.0008 U	996	1	0.06	545	100%	0.000	61,661	4,568
SB-217	0.0008 U	392	0	0.02	545	100%	0.000	62,053	4,597
SB-36	0.0007 U	755	1	0.05	545	100%	0.000	62,808	4,652
SB-195	0.0007 U	767	1	0.05	545	100%	0.000	63,576	4,709
SB-196	0.0007 U	447	0	0.03	545	100%	0.000	64,023	4,742
SB-203	0.0007 U	155	0	0.01	545	100%	0.000	64,178	4,754
SB-49	0.0007 U	2,490	2	0.15	545	100%	0.000	66,668	4,938

APPENDIX B-16
AREA-WEIGHTED AVERAGE DETAILS
γ-BHC BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

γ-BHC 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-37	0.0007 U	1,040	1	0.06	545	100%	0.000	67,708	5,015
SB-198	0.0007 U	160	0	0.01	545	100%	0.000	67,868	5,027
SB-191	0.0007 U	123	0	0.01	545	100%	0.000	67,991	5,036
SB-88	0.0007 U	1,816	1	0.11	545	100%	0.000	69,807	5,171
SB-100	0.0007 U	1,220	1	0.07	546	100%	0.000	71,027	5,261
SB-26	0.0007 U	87	0	0.01	546	100%	0.000	71,113	5,268
SB-192	0.0007 U	110	0	0.01	546	100%	0.000	71,223	5,276
SB-200	0.0007 U	187	0	0.01	546	100%	0.000	71,410	5,290
SB-193	0.0007 U	126	0	0.01	546	100%	0.000	71,537	5,299
SB-206	0.0007 U	1,264	1	0.07	546	100%	0.000	72,801	5,393
SB-185	0.0007 U	245	0	0.01	546	100%	0.000	73,045	5,411
ND	0.0000	0	0	0.00	546	100%	0.000	73,045	5,411
ND	0.0000	0	0	0.00	546	100%	0.000	73,045	5,411
ND	0.0000	0	0	0.00	546	100%	0.000	73,045	5,411
ND	0.0000	0	0	0.00	546	100%	0.000	73,045	5,411
ND	0.0000	0	0	0.00	546	100%		73,045	5,411
Total		73,045	6,593	546					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-17
AREA-WEIGHTED AVERAGE DETAILS
TOXAPHENE BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Toxaphene 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No Excavation				9,296			3.04		
SB-12	0.2300 U	63	14	1.20	1	0%	3.04	63	5
SB-150	5.2000 U	149	773	63.98	65	1%	3.02	211	16
SB-151	2.5000 U	155	388	32.10	97	1%	3.01	367	27
SB-154	4.8000 U	220	1,058	87.53	185	2%	2.98	587	43
SB-16	2.0000	90	180	14.86	200	2%	2.98	677	50
SB-199	2.9000 U	166	480	39.74	239	3%	2.97	842	62
SB-204	2.0000	115	230	19.01	258	3%	2.96	957	71
SB-205	0.2900 U	24	7	0.58	259	3%	2.96	981	73
SB-212	280.0000	216	60,590	5,014.51	5,274	57%	1.32	1,198	89
SB-214	0.2800 U	293	82	6.79	5,280	57%	1.32	1,491	110
SB-215	0.2900 U	283	82	6.78	5,287	57%	1.31	1,773	131
SB-216	4.2000	424	1,781	147.44	5,435	58%	1.26	2,198	163
SB-218	0.2900 U	833	242	20.00	5,455	59%	1.26	3,031	225
SB-219	0.2900 U	292	85	7.00	5,462	59%	1.26	3,323	246
SB-97	23.0000	216	4,979	412.09	5,874	63%	1.12	3,539	262
TSB-10	13.0000	1,616	21,008	1,738.69	7,612	82%	0.55	5,155	382
SB-13	7.1300 K	571	4,075	337.23	7,950	86%	0.44	5,727	424
SB-201	5.8000 U	137	796	65.84	8,015	86%	0.42	5,864	434
SB-17	2.2000	645	1,419	117.43	8,133	87%	0.38	6,509	482
SB-88	1.6000	1,816	2,905	240.41	8,373	90%	0.30	8,324	617
SB-78	1.3500 K	381	514	42.57	8,416	91%	0.29	8,705	645
SB-217	1.3000	392	509	42.14	8,458	91%	0.27	9,097	674
SB-B	1.2500 K	31	38	3.16	8,461	91%	0.27	9,128	676
TSB-9	1.2000	2,600	3,120	258.19	8,719	94%	0.19	11,727	869
SB-152	0.6700 I	317	212	17.58	8,737	94%	0.18	12,044	892
SB-106	0.3200 U	1,722	551	45.61	8,782	94%	0.17	13,766	1,020
SB-96	0.3100 U	699	217	17.94	8,800	95%	0.16	14,466	1,072
SB-19	0.3000 U	638	191	15.84	8,816	95%	0.16	15,104	1,119
SB-58	0.3000 U	44	13	1.10	8,817	95%	0.16	15,148	1,122
SB-211	0.2900 U	615	178	14.76	8,832	95%	0.15	15,763	1,168
SB-87	0.2900 U	101	29	2.41	8,835	95%	0.15	15,863	1,175
SB-20	0.2900 U	616	179	14.78	8,849	95%	0.15	16,479	1,221
SB-190	0.2900 U	195	56	4.68	8,854	95%	0.14	16,674	1,235
SB-109	0.2900 U	1,656	480	39.73	8,894	96%	0.13	18,329	1,358
SB-43	0.2900 U	1,212	351	29.09	8,923	96%	0.12	19,541	1,448
SB-35	0.2900 U	996	289	23.91	8,947	96%	0.11	20,538	1,521
SB-44	0.2900 U	828	240	19.88	8,967	96%	0.11	21,366	1,583
SB-95	0.2900 U	87	25	2.09	8,969	96%	0.11	21,453	1,589
SB-194	0.2800 U	173	48	4.01	8,973	97%	0.11	21,626	1,602
SB-202	0.2800 U	157	44	3.65	8,976	97%	0.10	21,783	1,614
SB-203	0.2800 U	155	43	3.60	8,980	97%	0.10	21,939	1,625
SB-191	0.2800 U	123	34	2.85	8,983	97%	0.10	22,062	1,634
SB-46	0.2800 U	2,055	575	47.62	9,030	97%	0.09	24,117	1,786
SB-2	0.2760 U	626	173	14.30	9,045	97%	0.08	24,743	1,833
SB-193	0.2700 U	126	34	2.82	9,048	97%	0.08	24,869	1,842
SB-192	0.2700 U	110	30	2.45	9,050	97%	0.08	24,979	1,850
TSB-14	0.2500 U	1,970	492	40.76	9,091	98%	0.07	26,948	1,996

APPENDIX B-17
AREA-WEIGHTED AVERAGE DETAILS
TOXAPHENE BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Toxaphene 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
TSB-5	0.2500 U	1,915	479	39.63	9,130	98%	0.05	28,864	2,138
TSB-28	0.2500 U	1,910	477	39.51	9,170	99%	0.04	30,774	2,280
TSB-6	0.2500 U	1,635	409	33.83	9,204	99%	0.03	32,408	2,401
TSB-11	0.2500 U	1,610	403	33.32	9,237	99%	0.02	34,019	2,520
TSB-15	0.2500 U	1,594	398	32.98	9,270	100%	0.01	35,613	2,638
TSB-22	0.2500 U	1,278	320	26.45	9,296	100%	0.00	36,891	2,733
ND	0.0000	0	0	0.00	9,296	100%	0.00	36,891	2,733
ND	0.0000	0	0	0.00	9,296	100%	0.00	36,891	2,733
ND	0.0000	0	0	0.00	9,296	100%	0.00	36,891	2,733
ND	0.0000	0	0	0.00	9,296	100%	0.00	36,891	2,733
ND	0.0000	0	0.000	0.00	9,296	100%		36,891	2,733
Total		36,891	112,328	9,296					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

APPENDIX B-18
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
No Excavation				5,330			1.00		
SB-105	0.480	451	217	17.93	18	0%	0.99	451	33
SB-150	5.10	149	758	62.75	81	2%	0.98	600	44
SB-151	20.90	155	3,243	268.39	349	7%	0.93	755	56
SB-154	7.80	220	1,719	142.23	491	9%	0.90	975	72
SB-186	1.90	129	246	20.35	512	10%	0.90	1,105	82
SB-187	3.30	110	364	30.09	542	10%	0.89	1,215	90
SB-188	2.20	141	311	25.73	567	11%	0.89	1,356	100
SB-189	5.20	154	801	66.28	634	12%	0.88	1,510	112
SB-197	1.30	206	267	22.14	656	12%	0.87	1,716	127
SB-199	3.00	166	497	41.11	697	13%	0.87	1,882	139
SB-215	0.0290	283	8	0.68	698	13%	0.87	2,164	160
SB-216	0.420	424	178	14.74	712	13%	0.86	2,588	192
SB-28	2.80	685	1,919	158.82	871	16%	0.83	3,274	243
SB-29	11.70	550	6,437	532.74	1,404	26%	0.73	3,824	283
SB-83	3.80	440	1,673	138.47	1,542	29%	0.71	4,264	316
SB-32	3.20	581	1,858	153.81	1,696	32%	0.68	4,845	359
SB-84	5.70	466	2,655	219.75	1,916	36%	0.64	5,311	393
SB-78	32.00	381	12,192	1,009.01	2,925	55%	0.45	5,692	422
SB-98	12.10	543	6,573	543.98	3,469	65%	0.35	6,235	462
SB-13	3.40	571	1,943	160.81	3,630	68%	0.32	6,807	504
SB-P	3.00	210	630	52.15	3,682	69%	0.31	7,017	520
SB-36	3.00	755	2,265	187.49	3,869	73%	0.27	7,772	576
SB-80	2.20	223	491	40.62	3,910	73%	0.27	7,995	592
SB-46	1.93	2,055	3,966	328.26	4,238	80%	0.20	10,050	744
TSB-27	1.54	771	1,187	98.26	4,337	81%	0.19	10,821	802
SB-48	1.07	889	951	78.69	4,415	83%	0.17	11,709	867
SB-47	1.02	354	361	29.87	4,445	83%	0.17	12,063	894
SB-25	0.980	1,393	1,365	112.97	4,558	86%	0.14	13,456	997
SB-45	0.920	260	239	19.79	4,578	86%	0.14	13,716	1,016
SB-201	0.780	137	107	8.85	4,587	86%	0.14	13,853	1,026
SB-206	0.780	1,264	986	81.60	4,668	88%	0.12	15,117	1,120
SB-104	0.750	2,225	1,669	138.12	4,806	90%	0.10	17,342	1,285
SB-33	0.640	395	253	20.91	4,827	91%	0.09	17,737	1,314
SB-92	0.580	831	482	39.87	4,867	91%	0.09	18,568	1,375
SB-8	0.560	522	292	24.20	4,891	92%	0.08	19,090	1,414
SB-211	0.490	615	301	24.94	4,916	92%	0.08	19,705	1,460
SB-31	0.470	548	257	21.30	4,938	93%	0.07	20,253	1,500
SB-B	0.470	31	14	1.19	4,939	93%	0.07	20,283	1,502
SB-30	0.390	802	313	25.88	4,965	93%	0.07	21,085	1,562
TSB-10	0.360	1,616	582	48.15	5,013	94%	0.06	22,701	1,682
SB-C	0.360	908	327	27.04	5,040	95%	0.05	23,609	1,749
SB-49	0.320	2,490	797	65.96	5,106	96%	0.04	26,099	1,933
TSB-26	0.240	1,069	256	21.22	5,127	96%	0.04	27,167	2,012
SB-26	0.240	87	21	1.72	5,129	96%	0.04	27,254	2,019
SB-152	0.230	317	73	6.03	5,135	96%	0.04	27,571	2,042
TSB-11	0.220	1,610	354	29.32	5,164	97%	0.03	29,182	2,162
SB-198	0.220	160	35	2.91	5,167	97%	0.03	29,342	2,173

APPENDIX B-18
AREA-WEIGHTED AVERAGE DETAILS
CHLORDANE BETWEEN 5-7 FEET
CHEVRON ORLANDO SUPERFUND SITE
ORLANDO, FLORIDA

Chlordane 5-10 ft bgs		Theissen Polygon						Excavation	
Soil Sample ID	Concentration (mg/kg)	Area (ft^2)	Weighted Area (ft^2-mg/kg)	Mass/ polygon (grams)	Total Mass (grams)	% mass	AWA (mg/kg)	Area (ft^2)	Volume (yd^3)
SB-44	0.189	828	157	12.96	5,180	97%	0.03	30,170	2,235
SB-10	0.180	1,175	211	17.50	5,198	98%	0.02	31,345	2,322
SB-108	0.176	496	87	7.23	5,205	98%	0.02	31,841	2,359
SB-93	0.162	815	132	10.92	5,216	98%	0.02	32,655	2,419
SB-153	0.149	344	51	4.24	5,220	98%	0.02	32,999	2,444
SB-213	0.140	349	49	4.04	5,224	98%	0.02	33,348	2,470
SB-217	0.130	392	51	4.21	5,228	98%	0.02	33,740	2,499
SB-Q	0.127	668	85	7.02	5,235	98%	0.02	34,407	2,549
SB-200	0.120	187	22	1.86	5,237	98%	0.02	34,594	2,563
SB-109	0.116	1,656	192	15.89	5,253	99%	0.01	36,250	2,685
SB-15	0.105	1,420	149	12.34	5,265	99%	0.01	37,670	2,790
TSB-12	0.093	1,328	124	10.22	5,276	99%	0.01	38,998	2,889
TSB-2	0.0691	2,184	151	12.49	5,288	99%	0.01	41,182	3,051
SB-43	0.0670	1,212	81	6.72	5,295	99%	0.01	42,394	3,140
SB-209	0.0540	262	14	1.17	5,296	99%	0.01	42,656	3,160
SB-34	0.0470	408	19	1.59	5,298	99%	0.01	43,064	3,190
SB-96	0.0460	699	32	2.66	5,300	99%	0.01	43,764	3,242
SB-208	0.0450	188	8	0.70	5,301	99%	0.01	43,951	3,256
SB-100	0.0410	1,220	50	4.14	5,305	100%	0.00	45,171	3,346
SB-103	0.0390	1,830	71	5.91	5,311	100%	0.00	47,001	3,482
TSB-25	0.0370	1,639	61	5.02	5,316	100%	0.00	48,640	3,603
SB-192	0.0350	110	4	0.32	5,316	100%	0.00	48,750	3,611
SB-196	0.0340	447	15	1.26	5,318	100%	0.00	49,197	3,644
SB-95	0.0300	87	3	0.22	5,318	100%	0.00	49,284	3,651
TSB-5	0.0210	1,915	40	3.33	5,321	100%	0.00	51,199	3,793
SB-210	0.0200	144	3	0.24	5,321	100%	0.00	51,343	3,803
SB-102	0.0154	1,019	16	1.30	5,323	100%	0.00	52,362	3,879
SB-185	0.0150	245	4	0.30	5,323	100%	0.00	52,607	3,897
TSB-15	0.0140	1,594	22	1.85	5,325	100%	0.00	54,201	4,015
TSB-28	0.0111	1,910	21	1.75	5,327	100%	0.00	56,111	4,156
SB-195	0.0110	767	8	0.70	5,327	100%	0.00	56,878	4,213
SB-202	0.0071	157	1	0.09	5,327	100%	0.00	57,036	4,225
TSB-18	0.0057	1,361	8	0.64	5,328	100%	0.00	58,397	4,326
TSB-23	0.0038	1,593	6	0.50	5,328	100%	0.00	59,990	4,444
TSB-22	0.0037	1,278	5	0.39	5,329	100%	0.00	61,268	4,538
TSB-29	0.0030	1,946	6	0.48	5,329	100%	0.00	63,214	4,683
TSB-24	0.0028	1,460	4	0.34	5,330	100%	0.00	64,675	4,791
ND	0.0000	0	0	0.00	5,330	100%	0.00	64,675	4,791
ND	0.0000	0	0	0.00	5,330	100%	0.00	64,675	4,791
ND	0.0000	0	0	0.00	5,330	100%	0.00	64,675	4,791
ND	0.0000	0	0	0.00	5,330	100%	0.00	64,675	4,791
ND	0.0000	0	0	0.00	5,330	100%	0.00	64,675	4,791
ND	0.0000	0	0.000	0.00	5,330	100%		64,675	4,791
Total		64,675	64,398	5,330					

AWA - Area weighted average

Shaded cells indicate soil polygons to be removed via excavation

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Appendix C

On-site Water Treatment and Disposal

APPENDIX C
ON-SITE WATER TREATMENT AND DISPOSAL
CHEVRON CHEMICAL SUPERFUND SITE
ORLANDO, FLORIDA

Stormwater and/or groundwater that may collect in active excavation areas will be treated and discharged on-site. The maximum flow for treatment purposes is assumed to be 10 gallons per minute. Storage of untreated water will be provided in the treatment process for peak flows during rainfall events. Disposal of treated water will be to an on-site exfiltration trench located near the southwest corner of the site.

Groundwater quality data from MW-50S were used to design the treatment system, since this well is in the center of the largest excavation area and has the highest concentrations of BHCs measured on-site. Concentrations of other constituents were estimated from historical groundwater data from monitor wells in the vicinity of the central excavation area. The groundwater quality data and treatment goals are summarized in the attached document prepared by Carbonair. Carbonair designs, manufactures, and leases mobile water treatment systems. Based on the design parameters provided to Carbonair, the proposed treatment system would include the following components: chitosan dispenser, flocculation/settling tank, pre-filters, activated alumina adsorber, liquid-phase carbon adsorber, post filters. The system details are provided in the attached document. The treated water would be temporarily stored onsite in portable tanks pending waste characterization.

Samples of the water treatment system effluent will be collected daily from a sampling port on the last granular activated carbon filter and analyzed for chlorinated pesticides until water treatment is complete. The samples will be shipped overnight to SunLabs, Inc. in Tampa, Florida, and analyzed on a 24-hour turnaround. The effluent quality data will be reviewed to determine if the effluent quality limits have been achieved, prior to discharge of the effluent. If the limits have not been achieved, the effluent will be pumped through the activated carbon filters and re-sampled prior to discharge. Daily effluent discharge flow readings will be recorded.

At the completion of water treatment system operation and effluent discharge, the spent carbon and sediment that has collected in the settling and tanks will be sampled. The samples will be analyzed by SunLabs, Inc. for toxicity characteristics leaching procedure (TCLP) chlorinated pesticides, volatile organic compounds, semi-volatile organic compounds and metals. It is anticipated that the carbon and sediment will be non-hazardous waste by characteristic. If these media are non-hazardous waste, they will be transported to the Waste Management, Inc. Class 1 landfill in Okeechobee, Florida for disposal. If the media are hazardous waste by characteristic, a hazardous waste disposal facility will be selected based on the treatment requirements for the waste type. The United States Environmental Protection Agency (USEPA) will be notified of the intent to dispose of the material, and will identify the intended transportation company and disposal facility. The spent carbon and/or sediment will not be disposed of until USEPA has approved of the disposal facility.

CARBONAIR

Your Mobile Water Treatment Specialists

7500 Boone Ave N, Suite 101, Brooklyn Park, MN 55428 Ph: 800-526-4999 Fax: 763-315-4614 www.carbonair.com

Customer: TASK Environmental
Site: Chevron, Orlando, FL
Date: 4/8/10

Design Basis:

Flow rate:	10	gpm
Project duration:	10	days
Daily volume to be treated:	6,000	gallons
Total volume to be treated:	60,000	gallons
Water temperature:	70	°F (assumed)

Contaminant	Influent Conc. (ug/L)	Effluent Criteria (ug/L)
Arsenic	30	10
Benzene	10	1
Chlordane	10	2
4,4'-DDD	0.8	0.8
Dieldrin	0.4	0.002
Lindane	6	0.2
a-BHC	21	0.05
b-BHC	2	0.1
d-BHC	90	2.1

Recommendations:

Chitosan Dispenser (to dispense chitosan)

One lay-flat 6-inch hose dispensers containing a 2-lb ChitoVan Lactate cartridge

- Chitosan is used as an agent to flocculate fine sediment particles.
- The dispenser is predicted to require cartridge refilling every 100,000 gallons. The actual chitosan usage rate may vary under a fluctuating operating condition.

Flocculation/Settling Tank (to allow suspended solids to flocculate and settle)

One tank with a minimum volume of 600 gallons

- The retention time is calculated to be 60 minutes at 10 gpm.

Pre-Filters (to remove fine flocs)

Two Krystil Klear L8830 bag filters (25 microns) in parallel followed by two Krystil Klear L8830 bag filters (1 micron)

Activated Alumina Adsorber (to remove arsenic)

One PC3 with 8 ft^3 of activated alumina (AA)

- The AA adsorber is predicted to last 2 million gallons.

Liquid Phase Carbon Adsorber (to remove dissolved hydrocarbons and pesticides)

One PC3 with 250 lbs of granular activated carbon

- Benzene is the critical contaminant. All the dissolved pesticides will also be removed by carbon adsorption and will break through after benzene.
- The carbon adsorber is predicted to last 2.88 million gallons (see the modeling below).

Post-Filters *(to remove fine particulate pesticides)*

Two Krystil Klear L8830 bag filters (0.5 microns)

- The post filters are recommended for the removal of fine particulates, which may be associated with pesticides.

LIQUID-PHASE CARBON ADSORPTION MODEL CALCULATIONS

CARBONAIR ENVIRONMENTAL SYSTEMS
7500 BOONE AVENUE NORTH, SUITE 101
BROOKLYN PARK, MN 55428
PHONE: 800-526-4999
FAX: 763-315-4614

CARBON ADSORBERS:	PC3
NO OF ADSORBERS IN SERIES:	1
TOTAL MASS OF CARBON (LBS):	250.00
FLOW RATE (GPM):	10.000
HYDRAULIC LOADING (GPM/SQ.FT):	4.2106
EMPTY BED CONTACT TIME (MIN.):	6.8152

DESIGN COMPOUND:	BENZENE
EXPECTED INFLUENT CONCENTRATION (PPB):	10.000
MODEL INFLUENT CONCENTRATION (PPB):	10.000
EFFLUENT CRITERIA (PPB):	1.0000
EFFECTIVE K-VALUE (%):	50.000

TIME(DAYS)	VOLUME TREATED(GAL)	EFF. CONC.(PPB)	
20.0	288000.	0.0000	
40.0	576000.	0.0000	
60.0	864000.	0.0000	
80.0	1152000.	0.0000	
100.0	1440000.	0.0000	
120.0	1728000.	0.0000	
140.0	2016000.	0.0219	
160.0	2304000.	0.0765	
180.0	2592000.	0.2421	
200.0	2880000.	0.6512	← BREAKTHROUGH
220.0	3168000.	1.3441	
240.0	3456000.	2.1684	
260.0	3744000.	2.9842	
280.0	4032000.	3.7381	
300.0	4320000.	4.4188	
320.0	4608000.	5.0285	
340.0	4896000.	5.5739	
360.0	5184000.	6.0614	
380.0	5472000.	6.4965	
400.0	5760000.	6.8852	
420.0	6048000.	7.2324	
440.0	6336000.	7.5423	
460.0	6624000.	7.8187	
480.0	6912000.	8.0648	

Note: The model influent concentration results from the impact of the other background compounds, which is determined by using a competitive adsorption model

DISCLAIMER: ACTUAL RESULTS MAY VARY SIGNIFICANTLY FROM THE MODEL. THE MODEL IS BASED ON THE ASSUMPTIONS THAT THE FLOW RATE AND INFLUENT CONCENTRATION ARE CONSTANT, AND ONLY THE CONTAMINANTS PROVIDED TO CARBONAIR ARE PRESENT IN THE WATER. VARYING OPERATING CONDITIONS CAN HAVE ADVERSE EFFECTS ON CARBON ADSORPTIVE CAPACITY. THE PREDICTED BED LIFE IS NOT GUARANTEED.

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Appendix D

Approved Waste Profiles

VEOLIA
ENVIRONMENTAL SERVICES

WASTESTREAM INFORMATION PROFILE

☐ Recertification

Disposal Code

Veolia ES LOCATION ☐ Invoice Address

3100 North Orange Blossom Trail (ADDRESS) Orlando (CITY) FL (ST) 32804

☒ Manifest from – blank if direct

Veolia ES TSDF requested PORT ARTH Technology requested INCIN Generator No. 0 Generator EPA ID No. FLD984172155

1. Generator Name Chevron EMC — Generator State No. NA
   Address 4800 Fournace Place, Suite 530A — State Wastestream No. NA
   City Bellaire — State TX — Country USA — ZIP 77401
   NAICS (SIC) Code 211111 325311 ____ Source ____ Origin ____ Form ____ System Type ____

2. Waste Name Soil — Lab or Waste Area ____

3. Process Generating Waste Excavation of pesticide contaminated soil.

4. Shipping Name PESTICIDE, SOLID, TOXIC, N. O. S.

   Hazard Class 6 UN/NA No. ____ PG ___ RQ amt 1 lb

RQ Desc:	1. Chlordane	2.
DOT Desc:	1. 151 Pesticide, Solid, Toxic, N. O. S.	2.

5. Waste Codes D020 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

   Wastewater ☐ Non Wastewater ☒ Sub Category ____

6. Physical and chemical properties (*check all that apply*)

pH
- a ☐ < 2
- b ☐ 2 - 5
- c ☐ 5 - 9
- d ☐ 9 - 12.5
- e ☐ > 12.5
- ____ exact

Specific Gravity
- a ☐ < .8
- b ☐ .8 - 1.0
- c ☐ 1.0
- d ☐ 1.0 - 1.2
- e ☐ > 1.2
- ____ exact

Flash Point (F)
- a ☐ < 80
- b ☐ 80 - 100
- c ☐ 101 - 140
- d ☐ 141 - 200
- e ☐ > 200
- f ☐ no flash ____ exact

Solids
- ____ % suspended
- ____ % settleable
- ____ % dissolved

Free Liquid Range 0 to 0%

- ____ % ash
- ____ water solubility
- ____ BTU/lb

Physical State
- s ☒ solid
- m ☐ semi-solid
- l ☐ liquid
- p ☐ pumpable semi-solid
- f ☐ flowable powder
- g ☐ gas
- a ☐ aerosol
- r ☐ pressurized liquid
- d ☐ debris per 40 CFR 268.45
- h ☐ sharps

Hazardous Characteristics
- a ☐ air reactive
- w ☐ water reactive
- c ☐ cyanide reactive
- f ☐ sulfide reactive
- e ☐ explosive
- o ☐ oxidizing acid
- p ☐ peroxide former
- r ☐ radioactive or NRC regulated
- s ☐ shock sensitive
- t ☐ temp sensitive
- m ☐ polymerization/monomer
- n ☐ OSHA carcinogen
- l ☐ infectious
- h ☐ inhalation hazard Zone: ____

Odor
- a none ☐
- b mild ☐
- c strong ☒

describe Organic

Halogens
- Br ____ % Bromine
- Cl ____ % Chlorine
- F ____ % Fluorine
- I ____ % Iodine

Layers: a ☐ multilayered: b ☐ bi-layered: c ☒ single phase:

Viscosity by Layer:	Top Layer	Second Layer	Bottom Layer
	☐ high (syrup)	☐ high (syrup)	☐ high (syrup)
	☐ medium (oil)	☐ medium (oil)	☐ medium (oil)
	☐ low (water)	☐ low (water)	☐ low (water)
	☐ solid	☐ solid	☐ solid

Color
Brown
____
____

Used oil y/n N HOC <1000 ppm ☐ or > 1000 ppm ☒

WIP No. ____

7. **Chemical Composition** [M = Marine Pollutant, S - Severe Marine Pollutant, O = Ozone Depleting Substance, U = Underlying Hazardous Constituent, B = Benzene NESHAP, T = TRI Chemical, C = OSHA Carcinogen]

	Constituents	Range	Units		Constituents	Range	Units
	Heptachlor	0 to 0.14	%				
	a-Chlordane	0 to 0.32	%				
	g-Chlordane	0 to 0.29	%				
	Soil (silica sand and organic debris)	90 to 100	%				
	Limestone gravel	0 to 20	%				

Total Composition Must Equal or Exceed 100%

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒
   PCB concentration _____ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream subject to Benzene NESHAP? Yes ☐ No ☒
    If yes, is the wastestream subject to Notification and Control Requirements? Yes ☐ No ☒
    Benzene concentration _____ ppm
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒
    Volatile organic concentration, if known _____ ppmw
    CC approved analytical method ☐ Generator Knowledge ☐
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☒ No ☐

14. **Container Information** (*Identify UN container marking if known*)
    Packaging: Bulk Solid ☐ Type/Size: _____ **Bulk Liquid** ☐ Type/Size: _____ **Drum** ☒ Type/Size: **17H open top steel, 55-gallon drums**
    Other _____
    Shipping Frequency: Units 8 Per Month ☐ Quarter ☐ Year ☐ One Time ☒ Other _____

15. **Additional Information:** _____

Is analytical or an MSDS available that describes the waste? Yes ☒ No ☐ If yes, please attach.

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

MARK P. STELLA — NAME (PRINT OR TYPE)

713-432-2643 — PHONE

09/03/2010 — DATE

Mark P. Stella — SIGNATURE

Environmental Specialist — TITLE

FACILITY NOTIFICATION

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

TSDF PROCESSING USE ONLY: PPE REQUIRED No _____ Yes _____ Describe _____

WIP No. _____

VEOLIA ENVIRONMENTAL SERVICES
WIP INSTRUCTIONS

Veolia ES requires completion of all sections of the Wastestream Information Profile (WIP). Sections not applicable to the wastestream must have N/A written in the space provided.

Documented WIP information is used to comply with TSDF Waste Analysis Plans, RCRA and DOT regulations, Emergency Planning and Community Right-to-Know Act (EPCRA), Pollution Prevention Act, Toxic Release Inventory Report and other regulatory and generator requirements.

MARINE POLLUTANT

- The wastestream is subject to the Marine Pollutant Regulations if:
  1. it is a bulk (>119 gallons) packaging with Marine Pollutant concentration ≥ 10% or Severe Marine Pollutant concentration ≥ 1%

     or
  2. it is non-bulk Marine Pollutant shipped by vessel (boat) in packages larger than 5 liters *(liquid) or 5 kg (solid)*

     or
  3. it is a non-bulk Severe Marine Pollutant, shipped by vessel (boat) in packages larger than 0.5 liters (liquid) or 0.5 kg (solid).

  Refer to the list of Marine Pollutants.

OZONE DEPLETING SUBSTANCE (ODS)

Refer to the list of Ozone Depleting Substances.

UNDERLYING HAZARDOUS CONSTITUENT (UHC)

Refer to the list of Underlying Hazardous Constituents (40 CFR 268.48)

BENZENE NESHAP

- The wastestream is subject to Benzene NESHAP notification and control requirements if it:
  1. contains > 10 ppm benzene, **and**
  2. is generated by a chemical manufacturing plant, petroleum refinery or coke by-product recovery plant, **and**
  3. the generator's Total Annual Benzene (TAB) is ≥ 10 Mg/yr

TRI CHEMICAL

- The wastestream is subject to Toxic Release Inventory Reporting if it contains a Section 313 Toxic Chemical and meets Qualifier requirements.

OSHA CARCINOGEN

- OSHA promulgated standards in 1974 to regulate the industrial use of 13 chemicals identified as occupational carcinogens. Exposures are to be controlled through the required use of engineering controls, work practices, and personal protective equipment, including respirators.
  See 29 CFR 1910.1003-1910.1016 for specific details.

RCRA SUB-PART CC CONTROLS

- Subpart CC Air Emission Control requirements apply to large quantity hazardous waste generators and to treatment, storage, and disposal facilities.
- Waste in containers greater than 0.1 cubic meters (i.e., 26.4 gallons) with greater than 500 ppm volatile organics are subject to this rule., unless otherwise exempted. Allowable controls include DOT approved containers, containers with an adequate cover and closure devices, and containers which operate with no detectable emissions (less than 500 ppm).

February 10, 2009

Susan Tobin
TASK Environmental , Inc.
27751 Lake Jem Road
Mount Dora, FL 32757

Re: SunLabs Project Number: **090111.01**
Client Project Description: **Chevron Orlando**

Dear Mrs. Tobin:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
78668	CO-SB-126-1	1/8/2009
78669	CO-SB-126-3	1/8/2009
78670	CO-SB-127-1	1/8/2009
78671	CO-SB-127-3	1/8/2009
78672	CO-SB-128-1	1/8/2009
78673	CO-SB-128-3	1/8/2009
78674	CO-SB-129-1	1/8/2009
78675	CO-SB-129-3	1/8/2009
78676	CO-SB-130-1	1/8/2009
78677	CO-SB-130-3	1/8/2009
78678	CO-SB-131-1	1/8/2009
78679	CO-SB-131-3	1/8/2009
78680	CO-SB-132-1	1/8/2009
78681	CO-SB-132-3	1/8/2009
78682	CO-SB-133-1	1/8/2009
78683	CO-SB-133-3	1/8/2009
78684	CO-SB-134-1	1/8/2009
78685	CO-SB-134-3	1/8/2009
78686	CO-SB-135-1	1/8/2009
78687	CO-SB-135-3	1/8/2009
78688	CO-SB-136-1	1/8/2009
78689	CO-SB-136-3	1/8/2009
78690	CO-SB-136-5	1/8/2009
78691	CO-SB-137-1	1/8/2009
78692	CO-SB-137-3	1/8/2009
78693	CO-SB-137-5	1/8/2009
78694	CO-SB-138-1	1/8/2009
78695	CO-SB-138-3	1/8/2009
78696	CO-SB-138-5	1/8/2009
78697	CO-SB-139-1	1/8/2009

Sample Number	Sample Description	Date Collected
78698	CO-SB-139-3	1/8/2009
78699	CO-SB-139-5	1/8/2009
78700	CO-SB-140-1	1/8/2009
78701	CO-SB-140-3	1/8/2009
78702	CO-SB-140-5	1/8/2009
78703	CO-SB-141-1	1/8/2009
78704	CO-SB-141-3	1/8/2009
78705	CO-SB-141-5	1/8/2009
78706	CO-SB-142-1	1/8/2009
78707	CO-SB-142-3	1/8/2009
78708	CO-SB-142-5	1/8/2009
78709	CO-SB-143-1	1/8/2009
78710	CO-SB-143-3	1/8/2009
78711	CO-SB-143-5	1/8/2009

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer
Vice President, Laboratory Operations

Enclosures

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78668**
Sample Designation **CO-SB-126-1**

Matrix: Soil
Date Collected: 1/8/2009 09:10
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 12:53	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	69	1		1.1	DEP-SURR-	01/14/09 12:53	01/12/09 15:40
a-BHC	8081	mg/kg	0.0031 U	1	0.0031	0.013	319-84-6	01/14/09 12:53	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0077	319-85-7	01/14/09 12:53	01/12/09 15:40
Lindane	8081	mg/kg	0.00065 U	1	0.00065	0.0027	58-89-9	01/14/09 12:53	01/12/09 15:40
d-BHC	8081	mg/kg	0.0024 U	1	0.0024	0.0095	319-86-8	01/14/09 12:53	01/12/09 15:40
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0082	76-44-8	01/14/09 12:53	01/12/09 15:40
Aldrin	8081	mg/kg	0.0024 U	1	0.0024	0.0095	309-00-2	01/14/09 12:53	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.39	10	0.018	0.073	1024-57-3	01/15/09 11:34	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.45	10	0.025	0.099	5103-71-9	01/15/09 11:34	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.34	10	0.018	0.073	5103-74-2	01/15/09 11:34	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0069	959-98-8	01/14/09 12:53	01/12/09 15:40
Dieldrin	8081	mg/kg	1.7	10	0.0017	0.0069	60-57-1	01/15/09 11:34	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.072	1	0.0018	0.0073	72-55-9	01/14/09 12:53	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0073	72-20-8	01/14/09 12:53	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.054	1	0.0017	0.0069	33213-65-9	01/14/09 12:53	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0077	72-54-8	01/14/09 12:53	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0069	7421-93-4	01/14/09 12:53	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0052	1031-07-8	01/14/09 12:53	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00069 U	1	0.00069	0.0028	50-29-3	01/14/09 12:53	01/12/09 15:40
Mirex	8081	mg/kg	0.0069 U	1	0.0069	0.028	2385-85-5	01/14/09 12:53	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0056	53494-70-5	01/14/09 12:53	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0082	72-43-5	01/14/09 12:53	01/12/09 15:40
Toxaphene	8081	mg/kg	0.25 U	1	0.25	0.99	8001-35-2	01/14/09 12:53	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	7			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78669**
Sample Designation **CO-SB-126-3**

Matrix: Soil
Date Collected: 1/8/2009 09:18
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 13:04	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	69	1		1	DEP-SURR-	01/14/09 13:04	01/12/09 15:40
a-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-84-6	01/14/09 13:04	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0074	319-85-7	01/14/09 13:04	01/12/09 15:40
Lindane	8081	mg/kg	0.00062 U	1	0.00062	0.0026	58-89-9	01/14/09 13:04	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0091	319-86-8	01/14/09 13:04	01/12/09 15:40
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0078	76-44-8	01/14/09 13:04	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0091	309-00-2	01/14/09 13:04	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.018	1	0.0018	0.007	1024-57-3	01/14/09 13:04	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.0075 I	1	0.0024	0.0095	5103-71-9	01/14/09 13:04	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.0054 I	1	0.0018	0.007	5103-74-2	01/14/09 13:04	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0016 U	1	0.0016	0.0066	959-98-8	01/14/09 13:04	01/12/09 15:40
Dieldrin	8081	mg/kg	0.058	1	0.0016	0.0066	60-57-1	01/14/09 13:04	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0049 I	1	0.0018	0.007	72-55-9	01/14/09 13:04	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-20-8	01/14/09 13:04	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0016 U	1	0.0016	0.0066	33213-65-9	01/14/09 13:04	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0074	72-54-8	01/14/09 13:04	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0016 U	1	0.0016	0.0066	7421-93-4	01/14/09 13:04	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0012 U	1	0.0012	0.0049	1031-07-8	01/14/09 13:04	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00066 U	1	0.00066	0.0027	50-29-3	01/14/09 13:04	01/12/09 15:40
Mirex	8081	mg/kg	0.0066 U	1	0.0066	0.027	2385-85-5	01/14/09 13:04	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0013 U	1	0.0013	0.0054	53494-70-5	01/14/09 13:04	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0078	72-43-5	01/14/09 13:04	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.95	8001-35-2	01/14/09 13:04	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	3			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78670**
Sample Designation **CO-SB-127-1**

Matrix: Soil
Date Collected: 1/8/2009 09:55
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 13:47	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	67	1		1.1	DEP-SURR-	01/14/09 13:47	01/12/09 15:40
a-BHC	8081	mg/kg	0.0076 I	1	0.0032	0.013	319-84-6	01/14/09 13:47	01/12/09 15:40
b-BHC	8081	mg/kg	0.020	1	0.002	0.008	319-85-7	01/14/09 13:47	01/12/09 15:40
Lindane	8081	mg/kg	0.0062	1	0.00067	0.0028	58-89-9	01/14/09 13:47	01/12/09 15:40
d-BHC	8081	mg/kg	0.023	1	0.0024	0.0098	319-86-8	01/14/09 13:47	01/12/09 15:40
Heptachlor	8081	mg/kg	0.0021 U	1	0.0021	0.0084	76-44-8	01/14/09 13:47	01/12/09 15:40
Aldrin	8081	mg/kg	0.0024 U	1	0.0024	0.0098	309-00-2	01/14/09 13:47	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0019 U	1	0.0019	0.0076	1024-57-3	01/14/09 13:47	01/12/09 15:40
a-Chlordane	8081	mg/kg	4.0	20	0.0026	0.01	5103-71-9	01/15/09 11:55	01/12/09 15:40
g-Chlordane	8081	mg/kg	3.1	20	0.0019	0.0076	5103-74-2	01/15/09 11:55	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.036 K	20	0.036	0.14	959-98-8	01/15/09 11:55	01/12/09 15:40
Dieldrin	8081	mg/kg	0.61	20	0.036	0.14	60-57-1	01/15/09 11:55	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.93	20	0.0019	0.0076	72-55-9	01/15/09 11:55	01/12/09 15:40
Endrin	8081	mg/kg	0.0019 U	1	0.0019	0.0076	72-20-8	01/14/09 13:47	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0018 U	1	0.0018	0.0071	33213-65-9	01/14/09 13:47	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.04 K	20	0.04	0.16	72-54-8	01/15/09 11:55	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0018 U	1	0.0018	0.0071	7421-93-4	01/14/09 13:47	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0053	1031-07-8	01/14/09 13:47	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.98	20	0.014	0.058	50-29-3	01/15/09 11:55	01/12/09 15:40
Mirex	8081	mg/kg	0.0071 U	1	0.0071	0.029	2385-85-5	01/14/09 13:47	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0058	53494-70-5	01/14/09 13:47	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.0021 U	1	0.0021	0.0084	72-43-5	01/14/09 13:47	01/12/09 15:40
Toxaphene	8081	mg/kg	25	10	0.26	1	8001-35-2	01/21/09 16:16	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	10			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78671**
Sample Designation **CO-SB-127-3**

Matrix: Soil
Date Collected: 1/8/2009 10:56
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 13:58	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	73	1		1	DEP-SURR-	01/14/09 13:58	01/12/09 15:40
a-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-84-6	01/14/09 13:58	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0074	319-85-7	01/14/09 13:58	01/12/09 15:40
Lindane	8081	mg/kg	0.00062 U	1	0.00062	0.0026	58-89-9	01/14/09 13:58	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0091	319-86-8	01/14/09 13:58	01/12/09 15:40
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0078	76-44-8	01/14/09 13:58	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0091	309-00-2	01/14/09 13:58	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0042 I	1	0.0018	0.007	1024-57-3	01/15/09 12:06	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.010	1	0.0024	0.0095	5103-71-9	01/15/09 12:06	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.0085	1	0.0018	0.007	5103-74-2	01/15/09 12:06	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0016 U	1	0.0016	0.0066	959-98-8	01/14/09 13:58	01/12/09 15:40
Dieldrin	8081	mg/kg	0.027	1	0.0016	0.0066	60-57-1	01/15/09 12:06	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-55-9	01/14/09 13:58	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-20-8	01/14/09 13:58	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0016 U	1	0.0016	0.0066	33213-65-9	01/14/09 13:58	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0074	72-54-8	01/14/09 13:58	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0016 U	1	0.0016	0.0066	7421-93-4	01/14/09 13:58	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0012 U	1	0.0012	0.0049	1031-07-8	01/14/09 13:58	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00066 U	1	0.00066	0.0027	50-29-3	01/14/09 13:58	01/12/09 15:40
Mirex	8081	mg/kg	0.0066 U	1	0.0066	0.027	2385-85-5	01/14/09 13:58	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0013 U	1	0.0013	0.0054	53494-70-5	01/14/09 13:58	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0078	72-43-5	01/14/09 13:58	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.95	8001-35-2	01/14/09 13:58	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	3			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78672**
Sample Designation **CO-SB-128-1**

Matrix: Soil
Date Collected: 1/8/2009 11:25
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 14:08	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	67	1		1.1	DEP-SURR-	01/14/09 14:08	01/12/09 15:40
a-BHC	8081	mg/kg	0.0032 U	1	0.0032	0.013	319-84-6	01/14/09 14:08	01/12/09 15:40
b-BHC	8081	mg/kg	0.002 U	1	0.002	0.0078	319-85-7	01/14/09 14:08	01/12/09 15:40
Lindane	8081	mg/kg	0.00065 U	1	0.00065	0.0027	58-89-9	01/14/09 14:08	01/12/09 15:40
d-BHC	8081	mg/kg	0.0024 U	1	0.0024	0.0096	319-86-8	01/14/09 14:08	01/12/09 15:40
Heptachlor	8081	mg/kg	0.073	1	0.0021	0.0083	76-44-8	01/14/09 14:08	01/12/09 15:40
Aldrin	8081	mg/kg	0.0024 U	1	0.0024	0.0096	309-00-2	01/14/09 14:08	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0074	1024-57-3	01/14/09 14:08	01/12/09 15:40
a-Chlordane	8081	mg/kg	2.6	10	0.0025	0.01	5103-71-9	01/15/09 12:17	01/12/09 15:40
g-Chlordane	8081	mg/kg	2.0	10	0.0018	0.0074	5103-74-2	01/15/09 12:17	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.007	959-98-8	01/14/09 14:08	01/12/09 15:40
Dieldrin	8081	mg/kg	4.6	100	0.0017	0.007	60-57-1	01/20/09 23:54	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.0074	72-55-9	01/14/09 14:08	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0074	72-20-8	01/14/09 14:08	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.007	33213-65-9	01/14/09 14:08	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.002 U	1	0.002	0.0078	72-54-8	01/14/09 14:08	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.007	7421-93-4	01/14/09 14:08	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0052	1031-07-8	01/14/09 14:08	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.0007 U	1	0.0007	0.0028	50-29-3	01/14/09 14:08	01/12/09 15:40
Mirex	8081	mg/kg	0.007 U	1	0.007	0.028	2385-85-5	01/14/09 14:08	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0057	53494-70-5	01/14/09 14:08	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.0021 U	1	0.0021	0.0083	72-43-5	01/14/09 14:08	01/12/09 15:40
Toxaphene	8081	mg/kg	0.25 U	1	0.25	1	8001-35-2	01/14/09 14:08	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	8			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78673**
Sample Designation **CO-SB-128-3**

Matrix: Soil
Date Collected: 1/8/2009 11:29
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 14:19	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	75	1		1	DEP-SURR-	01/14/09 14:19	01/12/09 15:40
a-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-84-6	01/14/09 14:19	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0074	319-85-7	01/14/09 14:19	01/12/09 15:40
Lindane	8081	mg/kg	0.00062 U	1	0.00062	0.0026	58-89-9	01/14/09 14:19	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0091	319-86-8	01/14/09 14:19	01/12/09 15:40
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0078	76-44-8	01/14/09 14:19	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0091	309-00-2	01/14/09 14:19	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.007	1024-57-3	01/14/09 14:19	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.055	1	0.0024	0.0095	5103-71-9	01/14/09 14:19	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.056	1	0.0018	0.007	5103-74-2	01/14/09 14:19	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0016 U	1	0.0016	0.0066	959-98-8	01/14/09 14:19	01/12/09 15:40
Dieldrin	8081	mg/kg	0.074	1	0.0016	0.0066	60-57-1	01/15/09 12:27	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-55-9	01/14/09 14:19	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-20-8	01/14/09 14:19	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0016 U	1	0.0016	0.0066	33213-65-9	01/14/09 14:19	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0074	72-54-8	01/14/09 14:19	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0016 U	1	0.0016	0.0066	7421-93-4	01/14/09 14:19	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0012 U	1	0.0012	0.0049	1031-07-8	01/14/09 14:19	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00066 U	1	0.00066	0.0027	50-29-3	01/14/09 14:19	01/12/09 15:40
Mirex	8081	mg/kg	0.0066 U	1	0.0066	0.027	2385-85-5	01/14/09 14:19	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0013 U	1	0.0013	0.0054	53494-70-5	01/14/09 14:19	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0078	72-43-5	01/14/09 14:19	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.95	8001-35-2	01/14/09 14:19	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	3			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78674**
Sample Designation **CO-SB-129-1**

Matrix: Soil
Date Collected: 1/8/2009 10:17
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 14:30	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	70	1		1.1	DEP-SURR-	01/14/09 14:30	01/12/09 15:40
a-BHC	8081	mg/kg	0.0032 U	1	0.0032	0.013	319-84-6	01/14/09 14:30	01/12/09 15:40
b-BHC	8081	mg/kg	0.002 U	1	0.002	0.0078	319-85-7	01/14/09 14:30	01/12/09 15:40
Lindane	8081	mg/kg	0.00065 U	1	0.00065	0.0027	58-89-9	01/14/09 14:30	01/12/09 15:40
d-BHC	8081	mg/kg	0.0024 U	1	0.0024	0.0096	319-86-8	01/14/09 14:30	01/12/09 15:40
Heptachlor	8081	mg/kg	0.0021 U	1	0.0021	0.0083	76-44-8	01/14/09 14:30	01/12/09 15:40
Aldrin	8081	mg/kg	0.0024 U	1	0.0024	0.0096	309-00-2	01/14/09 14:30	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0074	1024-57-3	01/14/09 14:30	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.87	20	0.05	0.2	5103-71-9	01/15/09 12:38	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.86	20	0.037	0.15	5103-74-2	01/15/09 12:38	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.007	959-98-8	01/14/09 14:30	01/12/09 15:40
Dieldrin	8081	mg/kg	0.46	20	0.035	0.14	60-57-1	01/15/09 12:38	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.0074	72-55-9	01/14/09 14:30	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0074	72-20-8	01/14/09 14:30	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.007	33213-65-9	01/14/09 14:30	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.002 U	1	0.002	0.0078	72-54-8	01/14/09 14:30	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.007	7421-93-4	01/14/09 14:30	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0052	1031-07-8	01/14/09 14:30	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.0007 U	1	0.0007	0.0028	50-29-3	01/14/09 14:30	01/12/09 15:40
Mirex	8081	mg/kg	0.007 U	1	0.007	0.028	2385-85-5	01/14/09 14:30	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0057	53494-70-5	01/14/09 14:30	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.0021 U	1	0.0021	0.0083	72-43-5	01/14/09 14:30	01/12/09 15:40
Toxaphene	8081	mg/kg	0.25 U	1	0.25	1	8001-35-2	01/14/09 14:30	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	8			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78675**
Sample Designation **CO-SB-129-3**

Matrix: Soil
Date Collected: 1/8/2009 10:19
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 14:41	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	73	1		1.1	DEP-SURR-	01/14/09 14:41	01/12/09 15:40
a-BHC	8081	mg/kg	0.0031 U	1	0.0031	0.013	319-84-6	01/14/09 14:41	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0076	319-85-7	01/14/09 14:41	01/12/09 15:40
Lindane	8081	mg/kg	0.00063 U	1	0.00063	0.0026	58-89-9	01/14/09 14:41	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0093	319-86-8	01/14/09 14:41	01/12/09 15:40
Heptachlor	8081	mg/kg	0.22	1	0.002	0.008	76-44-8	01/14/09 14:41	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0093	309-00-2	01/14/09 14:41	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.16	1	0.0018	0.0072	1024-57-3	01/14/09 14:41	01/12/09 15:40
a-Chlordane	8081	mg/kg	1.9	10	0.024	0.097	5103-71-9	01/15/09 12:49	01/12/09 15:40
g-Chlordane	8081	mg/kg	1.7	10	0.018	0.072	5103-74-2	01/15/09 12:49	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0067	959-98-8	01/14/09 14:41	01/12/09 15:40
Dieldrin	8081	mg/kg	2.2	10	0.017	0.067	60-57-1	01/15/09 12:49	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-55-9	01/14/09 14:41	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-20-8	01/14/09 14:41	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0067	33213-65-9	01/14/09 14:41	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0076	72-54-8	01/14/09 14:41	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0067	7421-93-4	01/14/09 14:41	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0051	1031-07-8	01/14/09 14:41	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00067 U	1	0.00067	0.0027	50-29-3	01/14/09 14:41	01/12/09 15:40
Mirex	8081	mg/kg	0.0067 U	1	0.0067	0.027	2385-85-5	01/14/09 14:41	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0055	53494-70-5	01/14/09 14:41	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.008	72-43-5	01/14/09 14:41	01/12/09 15:40
Toxaphene	8081	mg/kg	18	10	0.24	0.97	8001-35-2	01/21/09 16:26	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78676**
Sample Designation **CO-SB-130-1**

Matrix: Soil
Date Collected: 1/8/2009 10:37
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 14:51	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	61	1		1.4	DEP-SURR-	01/14/09 14:51	01/12/09 15:40
a-BHC	8081	mg/kg	0.004 U	1	0.004	0.016	319-84-6	01/14/09 14:51	01/12/09 15:40
b-BHC	8081	mg/kg	0.025	1	0.0025	0.0099	319-85-7	01/14/09 14:51	01/12/09 15:40
Lindane	8081	mg/kg	0.048	1	0.00082	0.0034	58-89-9	01/14/09 14:51	01/12/09 15:40
d-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-86-8	01/14/09 14:51	01/12/09 15:40
Heptachlor	8081	mg/kg	0.0026 U	1	0.0026	0.01	76-44-8	01/14/09 14:51	01/12/09 15:40
Aldrin	8081	mg/kg	0.003 U	1	0.003	0.012	309-00-2	01/14/09 14:51	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0023 U	1	0.0023	0.0093	1024-57-3	01/14/09 14:51	01/12/09 15:40
a-Chlordane	8081	mg/kg	5.9	20	0.063	0.25	5103-71-9	01/15/09 12:59	01/12/09 15:40
g-Chlordane	8081	mg/kg	5.7	20	0.047	0.19	5103-74-2	01/15/09 12:59	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0022 U	1	0.0022	0.0088	959-98-8	01/14/09 14:51	01/12/09 15:40
Dieldrin	8081	mg/kg	7.1	20	0.044	0.18	60-57-1	01/15/09 12:59	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0023 U	1	0.0023	0.0093	72-55-9	01/14/09 14:51	01/12/09 15:40
Endrin	8081	mg/kg	0.0023 U	1	0.0023	0.0093	72-20-8	01/14/09 14:51	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0022 U	1	0.0022	0.0088	33213-65-9	01/14/09 14:51	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0025 U	1	0.0025	0.0099	72-54-8	01/14/09 14:51	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0022 U	1	0.0022	0.0088	7421-93-4	01/14/09 14:51	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0016 U	1	0.0016	0.0066	1031-07-8	01/14/09 14:51	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00088 U	1	0.00088	0.0036	50-29-3	01/14/09 14:51	01/12/09 15:40
Mirex	8081	mg/kg	0.0088 U	1	0.0088	0.036	2385-85-5	01/14/09 14:51	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0018 U	1	0.0018	0.0071	53494-70-5	01/14/09 14:51	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.0026 U	1	0.0026	0.01	72-43-5	01/14/09 14:51	01/12/09 15:40
Toxaphene	8081	mg/kg	0.32 U	1	0.32	1.3	8001-35-2	01/14/09 14:51	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	27			0.14		01/13/09	

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Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78677**
Sample Designation **CO-SB-130-3**

Matrix: Soil
Date Collected: 1/8/2009 10:41
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 15:02	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	69	1		1.1	DEP-SURR-	01/14/09 15:02	01/12/09 15:40
a-BHC	8081	mg/kg	0.0031 U	1	0.0031	0.013	319-84-6	01/14/09 15:02	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0076	319-85-7	01/14/09 15:02	01/12/09 15:40
Lindane	8081	mg/kg	0.00063 U	1	0.00063	0.0026	58-89-9	01/14/09 15:02	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0093	319-86-8	01/14/09 15:02	01/12/09 15:40
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.008	76-44-8	01/14/09 15:02	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0093	309-00-2	01/14/09 15:02	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0072	1024-57-3	01/14/09 15:02	01/12/09 15:40
a-Chlordane	8081	mg/kg	2.8	10	0.024	0.097	5103-71-9	01/15/09 13:10	01/12/09 15:40
g-Chlordane	8081	mg/kg	2.1	10	0.018	0.072	5103-74-2	01/15/09 13:10	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0067	959-98-8	01/14/09 15:02	01/12/09 15:40
Dieldrin	8081	mg/kg	4.5	50	0.084	0.34	60-57-1	01/20/09 00:15	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-55-9	01/14/09 15:02	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-20-8	01/14/09 15:02	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0067	33213-65-9	01/14/09 15:02	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0076	72-54-8	01/14/09 15:02	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0067	7421-93-4	01/14/09 15:02	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0051	1031-07-8	01/14/09 15:02	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00067 U	1	0.00067	0.0027	50-29-3	01/14/09 15:02	01/12/09 15:40
Mirex	8081	mg/kg	0.0067 U	1	0.0067	0.027	2385-85-5	01/14/09 15:02	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0055	53494-70-5	01/14/09 15:02	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.008	72-43-5	01/14/09 15:02	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.97	8001-35-2	01/14/09 15:02	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78678**
Sample Designation **CO-SB-131-1**

Matrix: Soil
Date Collected: 1/8/2009 11:08
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results		Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081										
Date Extracted	3545a		01/12/09							01/12/09 15:40
Date Analyzed			1/14/09		1				01/14/09 15:13	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	80		1		1.1	DEP-SURR-	01/14/09 15:13	01/12/09 15:40
a-BHC	8081	mg/kg	0.0031	U	1	0.0031	0.013	319-84-6	01/14/09 15:13	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019	U	1	0.0019	0.0077	319-85-7	01/14/09 15:13	01/12/09 15:40
Lindane	8081	mg/kg	0.00064	U	1	0.00064	0.0027	58-89-9	01/14/09 15:13	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023	U	1	0.0023	0.0094	319-86-8	01/14/09 15:13	01/12/09 15:40
Heptachlor	8081	mg/kg	0.44		50	0.002	0.0081	76-44-8	01/15/09 13:53	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023	U	1	0.0023	0.0094	309-00-2	01/14/09 15:13	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018	U	1	0.0018	0.0072	1024-57-3	01/14/09 15:13	01/12/09 15:40
a-Chlordane	8081	mg/kg	7.0		50	0.12	0.49	5103-71-9	01/15/09 13:53	01/12/09 15:40
g-Chlordane	8081	mg/kg	5.4		50	0.09	0.36	5103-74-2	01/15/09 13:53	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017	U	1	0.0017	0.0068	959-98-8	01/14/09 15:13	01/12/09 15:40
Dieldrin	8081	mg/kg	10		50	0.085	0.34	60-57-1	01/15/09 13:53	01/12/09 15:40
4,4'-DDE	8081	mg/kg	1.9		50	0.0018	0.0072	72-55-9	01/15/09 13:53	01/12/09 15:40
Endrin	8081	mg/kg	0.0018	U	1	0.0018	0.0072	72-20-8	01/14/09 15:13	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0017	U	1	0.0017	0.0068	33213-65-9	01/14/09 15:13	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019	U	1	0.0019	0.0077	72-54-8	01/14/09 15:13	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017	U	1	0.0017	0.0068	7421-93-4	01/14/09 15:13	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013	U	1	0.0013	0.0051	1031-07-8	01/14/09 15:13	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00068	U	1	0.00068	0.0028	50-29-3	01/14/09 15:13	01/12/09 15:40
Mirex	8081	mg/kg	0.0068	U	1	0.0068	0.028	2385-85-5	01/14/09 15:13	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014	U	1	0.0014	0.0055	53494-70-5	01/14/09 15:13	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002	U	1	0.002	0.0081	72-43-5	01/14/09 15:13	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24	U	1	0.24	0.98	8001-35-2	01/14/09 15:13	01/12/09 15:40
Percent Moisture										
% Moisture	160.3M	%	6				0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78679**
Sample Designation **CO-SB-131-3**

Matrix: Soil
Date Collected: 1/8/2009 11:13
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/08	1				01/14/09 15:24	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	76	1		1.1	DEP-SURR-	01/14/09 15:24	01/12/09 15:40
a-BHC	8081	mg/kg	0.0031 U	1	0.0031	0.013	319-84-6	01/14/09 15:24	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0077	319-85-7	01/14/09 15:24	01/12/09 15:40
Lindane	8081	mg/kg	0.00064 U	1	0.00064	0.0027	58-89-9	01/14/09 15:24	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0094	319-86-8	01/14/09 15:24	01/12/09 15:40
Heptachlor	8081	mg/kg	0.051	1	0.002	0.0081	76-44-8	01/14/09 15:24	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0094	309-00-2	01/14/09 15:24	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0072	1024-57-3	01/14/09 15:24	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.48	10	0.024	0.098	5103-71-9	01/15/09 14:04	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.40	10	0.018	0.072	5103-74-2	01/15/09 14:04	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0068	959-98-8	01/14/09 15:24	01/12/09 15:40
Dieldrin	8081	mg/kg	0.87	10	0.017	0.068	60-57-1	01/15/09 14:04	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.13	1	0.0018	0.0072	72-55-9	01/14/09 15:24	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-20-8	01/14/09 15:24	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0068	33213-65-9	01/14/09 15:24	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0077	72-54-8	01/14/09 15:24	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0068	7421-93-4	01/14/09 15:24	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0051	1031-07-8	01/14/09 15:24	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00068 U	1	0.00068	0.0028	50-29-3	01/14/09 15:24	01/12/09 15:40
Mirex	8081	mg/kg	0.0068 U	1	0.0068	0.028	2385-85-5	01/14/09 15:24	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0055	53494-70-5	01/14/09 15:24	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0081	72-43-5	01/14/09 15:24	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.98	8001-35-2	01/14/09 15:24	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	6			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78680**
Sample Designation **CO-SB-132-1**

Matrix: Soil
Date Collected: 1/8/2009 11:38
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 16:07	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	98	1		1.1	DEP-SURR-	01/14/09 16:07	01/12/09 15:40
a-BHC	8081	mg/kg	0.17	1	0.0033	0.014	319-84-6	01/14/09 16:07	01/12/09 15:40
b-BHC	8081	mg/kg	0.74	20	0.0021	0.0083	319-85-7	01/15/09 14:14	01/12/09 15:40
Lindane	8081	mg/kg	0.099	1	0.00069	0.0029	58-89-9	01/14/09 16:07	01/12/09 15:40
d-BHC	8081	mg/kg	0.21	1	0.0025	0.01	319-86-8	01/14/09 16:07	01/12/09 15:40
Heptachlor	8081	mg/kg	0.0022 U	1	0.0022	0.0087	76-44-8	01/14/09 16:07	01/12/09 15:40
Aldrin	8081	mg/kg	1.9	20	0.0025	0.01	309-00-2	01/15/09 14:14	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.002 U	1	0.002	0.0078	1024-57-3	01/14/09 16:07	01/12/09 15:40
a-Chlordane	8081	mg/kg	1.6	20	0.053	0.21	5103-71-9	01/15/09 14:14	01/12/09 15:40
g-Chlordane	8081	mg/kg	1.0	20	0.039	0.16	5103-74-2	01/15/09 14:14	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.037 K	20	0.037	0.15	959-98-8	01/21/09 16:05	01/12/09 15:40
Dieldrin	8081	mg/kg	2.1	20	0.037	0.15	60-57-1	01/15/09 14:14	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.002 U	1	0.002	0.0078	72-55-9	01/14/09 16:07	01/12/09 15:40
Endrin	8081	mg/kg	0.002 U	1	0.002	0.0078	72-20-8	01/14/09 16:07	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0018 U	1	0.0018	0.0074	33213-65-9	01/14/09 16:07	01/12/09 15:40
4,4'-DDD	8081	mg/kg	3.0	20	0.041	0.17	72-54-8	01/15/09 14:14	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0018 U	1	0.0018	0.0074	7421-93-4	01/14/09 16:07	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0014 U	1	0.0014	0.0055	1031-07-8	01/14/09 16:07	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.44	20	0.00074	0.003	50-29-3	01/15/09 14:14	01/12/09 15:40
Mirex	8081	mg/kg	0.0074 U	1	0.0074	0.03	2385-85-5	01/14/09 16:07	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0015 U	1	0.0015	0.006	53494-70-5	01/14/09 16:07	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.0022 U	1	0.0022	0.0087	72-43-5	01/14/09 16:07	01/12/09 15:40
Toxaphene	8081	mg/kg	26	20	0.26	1.1	8001-35-2	01/21/09 16:05	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	13			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78681**
Sample Designation **CO-SB-132-3**

Matrix: Soil
Date Collected: 1/8/2009 11:41
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 16:17	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	75	1		1.1	DEP-SURR-	01/14/09 16:17	01/12/09 15:40
a-BHC	8081	mg/kg	0.0032 I	1	0.0031	0.013	319-84-6	01/14/09 16:17	01/12/09 15:40
b-BHC	8081	mg/kg	0.018	1	0.0019	0.0076	319-85-7	01/14/09 16:17	01/12/09 15:40
Lindane	8081	mg/kg	0.00063 U	1	0.00063	0.0026	58-89-9	01/14/09 16:17	01/12/09 15:40
d-BHC	8081	mg/kg	0.0029 I	1	0.0023	0.0093	319-86-8	01/14/09 16:17	01/12/09 15:40
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.008	76-44-8	01/14/09 16:17	01/12/09 15:40
Aldrin	8081	mg/kg	0.019	1	0.0023	0.0093	309-00-2	01/14/09 16:17	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0072	1024-57-3	01/14/09 16:17	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.014	1	0.0024	0.0097	5103-71-9	01/14/09 16:17	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.013	1	0.0018	0.0072	5103-74-2	01/14/09 16:17	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0067	959-98-8	01/14/09 16:17	01/12/09 15:40
Dieldrin	8081	mg/kg	0.035	1	0.0017	0.0067	60-57-1	01/14/09 16:17	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-55-9	01/14/09 16:17	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-20-8	01/14/09 16:17	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0067	33213-65-9	01/14/09 16:17	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0079	1	0.0019	0.0076	72-54-8	01/15/09 14:25	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0067	7421-93-4	01/14/09 16:17	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0051	1031-07-8	01/14/09 16:17	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00067 U	1	0.00067	0.0027	50-29-3	01/14/09 16:17	01/12/09 15:40
Mirex	8081	mg/kg	0.0067 U	1	0.0067	0.027	2385-85-5	01/14/09 16:17	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0055	53494-70-5	01/14/09 16:17	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.008	72-43-5	01/14/09 16:17	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.97	8001-35-2	01/14/09 16:17	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78682**
Sample Designation **CO-SB-133-1**

Matrix: Soil
Date Collected: 1/8/2009 11:49
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results		Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081										
Date Extracted	3545a		01/12/09							01/12/09 15:40
Date Analyzed			1/14/09		1				01/14/09 16:28	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	72		1		1.1	DEP-SURR-	01/14/09 16:28	01/12/09 15:40
a-BHC	8081	mg/kg	1.6	K	500	1.6	6.5	319-84-6	01/15/09 14:36	01/12/09 15:40
b-BHC	8081	mg/kg	1	K	500	1	3.9	319-85-7	01/15/09 14:36	01/12/09 15:40
Lindane	8081	mg/kg	0.32	K	500	0.32	1.4	58-89-9	01/15/09 14:36	01/12/09 15:40
d-BHC	8081	mg/kg	1.2	K	500	1.2	4.8	319-86-8	01/15/09 14:36	01/12/09 15:40
Heptachlor	8081	mg/kg	31		500	1	4.2	76-44-8	01/15/09 14:36	01/12/09 15:40
Aldrin	8081	mg/kg	1.2	K	500	1.2	4.8	309-00-2	01/15/09 14:36	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.9	K	500	0.9	3.7	1024-57-3	01/15/09 14:36	01/12/09 15:40
a-Chlordane	8081	mg/kg	260		5000	12	50	5103-71-9	01/20/09 00:26	01/12/09 15:40
g-Chlordane	8081	mg/kg	220		5000	9.2	37	5103-74-2	01/20/09 00:26	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.85	K	500	0.85	3.5	959-98-8	01/15/09 14:36	01/12/09 15:40
Dieldrin	8081	mg/kg	0.85	K	500	0.85	3.5	60-57-1	01/15/09 14:36	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.9	K	500	0.9	3.7	72-55-9	01/15/09 14:36	01/12/09 15:40
Endrin	8081	mg/kg	0.9	K	500	0.9	3.7	72-20-8	01/15/09 14:36	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.85	K	500	0.85	3.5	33213-65-9	01/15/09 14:36	01/12/09 15:40
4,4'-DDD	8081	mg/kg	29		5000	1	3.9	72-54-8	01/20/09 00:26	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.85	K	500	0.85	3.5	7421-93-4	01/15/09 14:36	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.65	K	500	0.65	2.6	1031-07-8	01/15/09 14:36	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.35	K	500	0.35	1.4	50-29-3	01/15/09 14:36	01/12/09 15:40
Mirex	8081	mg/kg	3.5	K	500	3.5	14	2385-85-5	01/15/09 14:36	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.7	K	500	0.7	2.8	53494-70-5	01/15/09 14:36	01/12/09 15:40
Methoxychlor	8081	mg/kg	1	K	500	1	4.2	72-43-5	01/15/09 14:36	01/12/09 15:40
Toxaphene	8081	mg/kg	120	K	500	120	500	8001-35-2	01/15/09 14:36	01/12/09 15:40
Percent Moisture										
% Moisture	160.3M	%	8				0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78683**
Sample Designation **CO-SB-133-3**

Matrix: Soil
Date Collected: 1/8/2009 11:51
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 16:39	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	81	1		1	DEP-SURR-	01/14/09 16:39	01/12/09 15:40
a-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-84-6	01/14/09 16:39	01/12/09 15:40
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0074	319-85-7	01/14/09 16:39	01/12/09 15:40
Lindane	8081	mg/kg	0.00062 U	1	0.00062	0.0026	58-89-9	01/14/09 16:39	01/12/09 15:40
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0091	319-86-8	01/14/09 16:39	01/12/09 15:40
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0078	76-44-8	01/14/09 16:39	01/12/09 15:40
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0091	309-00-2	01/14/09 16:39	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.007	1024-57-3	01/14/09 16:39	01/12/09 15:40
a-Chlordane	8081	mg/kg	0.20	10	0.024	0.095	5103-71-9	01/15/09 14:47	01/12/09 15:40
g-Chlordane	8081	mg/kg	0.18	10	0.018	0.07	5103-74-2	01/15/09 14:47	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0016 U	1	0.0016	0.0066	959-98-8	01/14/09 16:39	01/12/09 15:40
Dieldrin	8081	mg/kg	0.0016 U	1	0.0016	0.0066	60-57-1	01/14/09 16:39	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-55-9	01/14/09 16:39	01/12/09 15:40
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-20-8	01/14/09 16:39	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0016 U	1	0.0016	0.0066	33213-65-9	01/14/09 16:39	01/12/09 15:40
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0074	72-54-8	01/14/09 16:39	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0016 U	1	0.0016	0.0066	7421-93-4	01/14/09 16:39	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0012 U	1	0.0012	0.0049	1031-07-8	01/14/09 16:39	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.00066 U	1	0.00066	0.0027	50-29-3	01/14/09 16:39	01/12/09 15:40
Mirex	8081	mg/kg	0.0066 U	1	0.0066	0.027	2385-85-5	01/14/09 16:39	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0013 U	1	0.0013	0.0054	53494-70-5	01/14/09 16:39	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0078	72-43-5	01/14/09 16:39	01/12/09 15:40
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.95	8001-35-2	01/14/09 16:39	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	3			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78684**
Sample Designation **CO-SB-134-1**

Matrix: Soil
Date Collected: 1/8/2009 13:35
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 15:40
Date Analyzed			1/14/09	1				01/14/09 16:49	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	82	1		1.1	DEP-SURR-	01/14/09 16:49	01/12/09 15:40
a-BHC	8081	mg/kg	0.20	1	0.0032	0.013	319-84-6	01/14/09 16:49	01/12/09 15:40
b-BHC	8081	mg/kg	7.7	50	0.099	0.4	319-85-7	01/15/09 14:47	01/12/09 15:40
Lindane	8081	mg/kg	0.31	1	0.00066	0.0027	58-89-9	01/14/09 16:49	01/12/09 15:40
d-BHC	8081	mg/kg	1.2 K	500	1.2	4.8	319-86-8	01/20/09 00:36	01/12/09 15:40
Heptachlor	8081	mg/kg	0.0021 U	1	0.0021	0.0084	76-44-8	01/14/09 16:49	01/12/09 15:40
Aldrin	8081	mg/kg	1.2 K	500	1.2	4.8	309-00-2	01/20/09 00:36	01/12/09 15:40
Heptachlor epoxide	8081	mg/kg	0.0019 U	1	0.0019	0.0075	1024-57-3	01/14/09 16:49	01/12/09 15:40
a-Chlordane	8081	mg/kg	10	500	1.3	5.1	5103-71-9	01/20/09 00:36	01/12/09 15:40
g-Chlordane	8081	mg/kg	10	500	0.93	3.7	5103-74-2	01/20/09 00:36	01/12/09 15:40
Endosulfan I	8081	mg/kg	0.0018 U	1	0.0018	0.007	959-98-8	01/14/09 16:49	01/12/09 15:40
Dieldrin	8081	mg/kg	9.9	50	0.0018	0.007	60-57-1	01/15/09 14:47	01/12/09 15:40
4,4'-DDE	8081	mg/kg	0.0019 U	1	0.0019	0.0075	72-55-9	01/14/09 16:49	01/12/09 15:40
Endrin	8081	mg/kg	0.0019 U	1	0.0019	0.0075	72-20-8	01/14/09 16:49	01/12/09 15:40
Endosulfan II	8081	mg/kg	0.0018 U	1	0.0018	0.007	33213-65-9	01/14/09 16:49	01/12/09 15:40
4,4'-DDD	8081	mg/kg	10	500	0.002	0.0079	72-54-8	01/20/09 00:36	01/12/09 15:40
Endrin aldehyde	8081	mg/kg	0.0018 U	1	0.0018	0.007	7421-93-4	01/14/09 16:49	01/12/09 15:40
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0053	1031-07-8	01/14/09 16:49	01/12/09 15:40
4,4'-DDT	8081	mg/kg	0.0007 U	1	0.0007	0.0029	50-29-3	01/14/09 16:49	01/12/09 15:40
Mirex	8081	mg/kg	0.007 U	1	0.007	0.029	2385-85-5	01/14/09 16:49	01/12/09 15:40
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0057	53494-70-5	01/14/09 16:49	01/12/09 15:40
Methoxychlor	8081	mg/kg	0.0021 U	1	0.0021	0.0084	72-43-5	01/14/09 16:49	01/12/09 15:40
Toxaphene	8081	mg/kg	79	500	0.25	1	8001-35-2	01/20/09 00:36	01/12/09 15:40
Percent Moisture									
% Moisture	160.3M	%	9			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78685**
Sample Designation **CO-SB-134-3**

Matrix: Soil
Date Collected: 1/8/2009 13:39
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results		Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081										
Date Extracted	3545a		01/12/09							01/12/09 18:00
Date Analyzed			1/21/09		1				01/21/09 17:42	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	65		1		1	DEP-SURR-	01/21/09 17:42	01/12/09 18:00
a-BHC	8081	mg/kg	0.003	U	1	0.003	0.012	319-84-6	01/21/09 17:42	01/12/09 18:00
b-BHC	8081	mg/kg	0.0019	I	1	0.0019	0.0075	319-85-7	01/21/09 17:42	01/12/09 18:00
Lindane	8081	mg/kg	0.00062	U	1	0.00062	0.0026	58-89-9	01/21/09 17:42	01/12/09 18:00
d-BHC	8081	mg/kg	0.0023	U	1	0.0023	0.0092	319-86-8	01/21/09 17:42	01/12/09 18:00
Heptachlor	8081	mg/kg	0.002	U	1	0.002	0.0079	76-44-8	01/21/09 17:42	01/12/09 18:00
Aldrin	8081	mg/kg	0.0023	U	1	0.0023	0.0092	309-00-2	01/21/09 17:42	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.0018	U	1	0.0018	0.0071	1024-57-3	01/21/09 17:42	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.0074	I	1	0.0024	0.0096	5103-71-9	01/21/09 17:42	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.0067	I	1	0.0018	0.0071	5103-74-2	01/21/09 17:42	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.0017	U	1	0.0017	0.0067	959-98-8	01/21/09 17:42	01/12/09 18:00
Dieldrin	8081	mg/kg	0.010		1	0.0017	0.0067	60-57-1	01/21/09 17:42	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.0018	U	1	0.0018	0.0071	72-55-9	01/21/09 17:42	01/12/09 18:00
Endrin	8081	mg/kg	0.0018	U	1	0.0018	0.0071	72-20-8	01/21/09 17:42	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.0017	U	1	0.0017	0.0067	33213-65-9	01/21/09 17:42	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.0043	I	1	0.0019	0.0075	72-54-8	01/21/09 17:42	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.0017	U	1	0.0017	0.0067	7421-93-4	01/21/09 17:42	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.0012	U	1	0.0012	0.005	1031-07-8	01/21/09 17:42	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.00067	U	1	0.00067	0.0027	50-29-3	01/21/09 17:42	01/12/09 18:00
Mirex	8081	mg/kg	0.0067	U	1	0.0067	0.027	2385-85-5	01/21/09 17:42	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.0014	U	1	0.0014	0.0054	53494-70-5	01/21/09 17:42	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.002	U	1	0.002	0.0079	72-43-5	01/21/09 17:42	01/12/09 18:00
Toxaphene	8081	mg/kg	0.24	U	1	0.24	0.96	8001-35-2	01/21/09 17:42	01/12/09 18:00
Percent Moisture										
% Moisture	160.3M	%	4				0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78686**
Sample Designation **CO-SB-135-1**

Matrix: Soil
Date Collected: 1/8/2009 13:57
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results		Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081										
Date Extracted	3545a		01/12/09							01/12/09 18:00
Date Analyzed			1/21/09		500				01/21/09 19:19	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	0	SD	500		600	DEP-SURR-	01/21/09 19:19	01/12/09 18:00
a-BHC	8081	mg/kg	1.8	K	500	1.8	7.5	319-84-6	01/21/09 19:19	01/12/09 18:00
b-BHC	8081	mg/kg	1.1	K	500	1.1	4.4	319-85-7	01/21/09 19:19	01/12/09 18:00
Lindane	8081	mg/kg	0.37	K	500	0.37	1.6	58-89-9	01/21/09 19:19	01/12/09 18:00
d-BHC	8081	mg/kg	1.4	K	500	1.4	5.5	319-86-8	01/21/09 19:19	01/12/09 18:00
Heptachlor	8081	mg/kg	1.2	K	500	1.2	4.7	76-44-8	01/21/09 19:19	01/12/09 18:00
Aldrin	8081	mg/kg	1.4	K	500	1.4	5.5	309-00-2	01/21/09 19:19	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	1	K	500	1	4.2	1024-57-3	01/21/09 19:19	01/12/09 18:00
a-Chlordane	8081	mg/kg	34		500	1.4	5.5	5103-71-9	01/21/09 19:19	01/12/09 18:00
g-Chlordane	8081	mg/kg	25		500	1	4.2	5103-74-2	01/21/09 19:19	01/12/09 18:00
Endosulfan I	8081	mg/kg	1	K	500	1	4	959-98-8	01/21/09 19:19	01/12/09 18:00
Dieldrin	8081	mg/kg	1	K	500	1	4	60-57-1	01/21/09 19:19	01/12/09 18:00
4,4'-DDE	8081	mg/kg	12		500	1	4.2	72-55-9	01/21/09 19:19	01/12/09 18:00
Endrin	8081	mg/kg	1	K	500	1	4.2	72-20-8	01/21/09 19:19	01/12/09 18:00
Endosulfan II	8081	mg/kg	1	K	500	1	4	33213-65-9	01/21/09 19:19	01/12/09 18:00
4,4'-DDD	8081	mg/kg	49		500	1.1	4.4	72-54-8	01/21/09 19:19	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	1	K	500	1	4	7421-93-4	01/21/09 19:19	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.75	K	500	0.75	3	1031-07-8	01/21/09 19:19	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.4	K	500	0.4	1.6	50-29-3	01/21/09 19:19	01/12/09 18:00
Mirex	8081	mg/kg	4	K	500	4	16	2385-85-5	01/21/09 19:19	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.8	K	500	0.8	3.2	53494-70-5	01/21/09 19:19	01/12/09 18:00
Methoxychlor	8081	mg/kg	1.2	K	500	1.2	4.7	72-43-5	01/21/09 19:19	01/12/09 18:00
Toxaphene	8081	mg/kg	140	K	500	140	550	8001-35-2	01/21/09 19:19	01/12/09 18:00
Percent Moisture										
% Moisture	160.3M	%	19				0.12		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78687**
Sample Designation **CO-SB-135-3**

Matrix: Soil
Date Collected: 1/8/2009 14:00
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	10				01/21/09 19:30	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	64	10		11	DEP-SURR-	01/21/09 19:30	01/12/09 18:00
a-BHC	8081	mg/kg	0.031 K	10	0.031	0.13	319-84-6	01/21/09 19:30	01/12/09 18:00
b-BHC	8081	mg/kg	0.019 K	10	0.019	0.077	319-85-7	01/21/09 19:30	01/12/09 18:00
Lindane	8081	mg/kg	0.0064 K	10	0.0064	0.027	58-89-9	01/21/09 19:30	01/12/09 18:00
d-BHC	8081	mg/kg	0.023 K	10	0.023	0.094	319-86-8	01/21/09 19:30	01/12/09 18:00
Heptachlor	8081	mg/kg	0.02 K	10	0.02	0.081	76-44-8	01/21/09 19:30	01/12/09 18:00
Aldrin	8081	mg/kg	0.023 K	10	0.023	0.094	309-00-2	01/21/09 19:30	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018 K	10	0.018	0.072	1024-57-3	01/21/09 19:30	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.57	50	0.024	0.098	5103-71-9	01/22/09 13:22	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.53	10	0.018	0.072	5103-74-2	01/21/09 19:30	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017 K	10	0.017	0.068	959-98-8	01/21/09 19:30	01/12/09 18:00
Dieldrin	8081	mg/kg	0.55	50	0.017	0.068	60-57-1	01/22/09 13:22	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.018 K	10	0.018	0.072	72-55-9	01/21/09 19:30	01/12/09 18:00
Endrin	8081	mg/kg	0.018 K	10	0.018	0.072	72-20-8	01/21/09 19:30	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017 K	10	0.017	0.068	33213-65-9	01/21/09 19:30	01/12/09 18:00
4,4'-DDD	8081	mg/kg	3.7	50	0.019	0.077	72-54-8	01/22/09 13:22	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017 K	10	0.017	0.068	7421-93-4	01/21/09 19:30	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013 K	10	0.013	0.051	1031-07-8	01/21/09 19:30	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.0068 K	10	0.0068	0.028	50-29-3	01/21/09 19:30	01/12/09 18:00
Mirex	8081	mg/kg	0.068 K	10	0.068	0.28	2385-85-5	01/21/09 19:30	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014 K	10	0.014	0.055	53494-70-5	01/21/09 19:30	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02 K	10	0.02	0.081	72-43-5	01/21/09 19:30	01/12/09 18:00
Toxaphene	8081	mg/kg	2.4 K	10	2.4	9.8	8001-35-2	01/21/09 19:30	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	6			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78688**
Sample Designation **CO-SB-136-1**

Matrix: Soil
Date Collected: 1/8/2009 14:34
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results		Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081										
Date Extracted	3545a		01/12/09							01/12/09 18:00
Date Analyzed			1/21/09		50				01/21/09 19:40	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	110		50		55	DEP-SURR-	01/21/09 19:40	01/12/09 18:00
a-BHC	8081	mg/kg	0.16	K	50	0.16	0.65	319-84-6	01/21/09 19:40	01/12/09 18:00
b-BHC	8081	mg/kg	0.40		50	0.095	0.38	319-85-7	01/21/09 19:40	01/12/09 18:00
Lindane	8081	mg/kg	0.032	K	50	0.032	0.13	58-89-9	01/21/09 19:40	01/12/09 18:00
d-BHC	8081	mg/kg	0.12	K	50	0.12	0.46	319-86-8	01/21/09 19:40	01/12/09 18:00
Heptachlor	8081	mg/kg	0.1	K	50	0.1	0.4	76-44-8	01/21/09 19:40	01/12/09 18:00
Aldrin	8081	mg/kg	0.12	K	50	0.12	0.46	309-00-2	01/21/09 19:40	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.09	K	50	0.09	0.36	1024-57-3	01/21/09 19:40	01/12/09 18:00
a-Chlordane	8081	mg/kg	5.1		50	0.12	0.48	5103-71-9	01/21/09 19:40	01/12/09 18:00
g-Chlordane	8081	mg/kg	3.6		50	0.09	0.36	5103-74-2	01/21/09 19:40	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.085	K	50	0.085	0.34	959-98-8	01/21/09 19:40	01/12/09 18:00
Dieldrin	8081	mg/kg	0.97		50	0.085	0.34	60-57-1	01/21/09 19:40	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.82		50	0.09	0.36	72-55-9	01/21/09 19:40	01/12/09 18:00
Endrin	8081	mg/kg	0.09	K	50	0.09	0.36	72-20-8	01/21/09 19:40	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.085	K	50	0.085	0.34	33213-65-9	01/21/09 19:40	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.095	K	50	0.095	0.38	72-54-8	01/21/09 19:40	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.085	K	50	0.085	0.34	7421-93-4	01/21/09 19:40	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.065	K	50	0.065	0.26	1031-07-8	01/21/09 19:40	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.034	K	50	0.034	0.14	50-29-3	01/21/09 19:40	01/12/09 18:00
Mirex	8081	mg/kg	0.34	K	50	0.34	1.4	2385-85-5	01/21/09 19:40	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.07	K	50	0.07	0.28	53494-70-5	01/21/09 19:40	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.1	K	50	0.1	0.4	72-43-5	01/21/09 19:40	01/12/09 18:00
Toxaphene	8081	mg/kg	19	I	50	12	48	8001-35-2	01/21/09 19:40	01/12/09 18:00
Percent Moisture										
% Moisture	160.3M	%	5				0.11		01/13/09	

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Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78689**
Sample Designation **CO-SB-136-3**

Matrix: Soil
Date Collected: 1/8/2009 14:36
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	1				01/21/09 19:51	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	55	1		1	DEP-SURR-	01/21/09 19:51	01/12/09 18:00
a-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-84-6	01/21/09 19:51	01/12/09 18:00
b-BHC	8081	mg/kg	0.0060 I	1	0.0019	0.0074	319-85-7	01/21/09 19:51	01/12/09 18:00
Lindane	8081	mg/kg	0.00062 U	1	0.00062	0.0026	58-89-9	01/21/09 19:51	01/12/09 18:00
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0091	319-86-8	01/21/09 19:51	01/12/09 18:00
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0078	76-44-8	01/21/09 19:51	01/12/09 18:00
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0091	309-00-2	01/21/09 19:51	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.007	1024-57-3	01/21/09 19:51	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.070	1	0.0024	0.0095	5103-71-9	01/21/09 19:51	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.066	1	0.0018	0.007	5103-74-2	01/21/09 19:51	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.0016 U	1	0.0016	0.0066	959-98-8	01/21/09 19:51	01/12/09 18:00
Dieldrin	8081	mg/kg	0.041	1	0.0016	0.0066	60-57-1	01/21/09 19:51	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-55-9	01/21/09 19:51	01/12/09 18:00
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.007	72-20-8	01/21/09 19:51	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.0016 U	1	0.0016	0.0066	33213-65-9	01/21/09 19:51	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0074	72-54-8	01/21/09 19:51	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.0016 U	1	0.0016	0.0066	7421-93-4	01/21/09 19:51	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.0012 U	1	0.0012	0.0049	1031-07-8	01/21/09 19:51	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.00066 U	1	0.00066	0.0027	50-29-3	01/21/09 19:51	01/12/09 18:00
Mirex	8081	mg/kg	0.0066 U	1	0.0066	0.027	2385-85-5	01/21/09 19:51	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.0013 U	1	0.0013	0.0054	53494-70-5	01/21/09 19:51	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0078	72-43-5	01/21/09 19:51	01/12/09 18:00
Toxaphene	8081	mg/kg	0.59 I	1	0.24	0.95	8001-35-2	01/21/09 19:51	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	3			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78690**
Sample Designation **CO-SB-136-5**

Matrix: Soil
Date Collected: 1/8/2009 14:39
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Hold									
Hold			NA	1				02/10/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78691**
Sample Designation **CO-SB-137-1**

Matrix: Soil
Date Collected: 1/8/2009 14:49
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results		Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081										
Date Extracted	3545a		01/12/09							01/12/09 18:00
Date Analyzed			1/21/09		500				01/21/09 20:02	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	0	SD	500		550	DEP-SURR-	01/21/09 20:02	01/12/09 18:00
a-BHC	8081	mg/kg	1.6	K	500	1.6	6.5	319-84-6	01/21/09 20:02	01/12/09 18:00
b-BHC	8081	mg/kg	0.95	K	500	0.95	3.8	319-85-7	01/21/09 20:02	01/12/09 18:00
Lindane	8081	mg/kg	0.32	K	500	0.32	1.4	58-89-9	01/21/09 20:02	01/12/09 18:00
d-BHC	8081	mg/kg	1.2	K	500	1.2	4.8	319-86-8	01/21/09 20:02	01/12/09 18:00
Heptachlor	8081	mg/kg	1400		10000	20	82	76-44-8	01/22/09 13:44	01/12/09 18:00
Aldrin	8081	mg/kg	1.2	K	500	1.2	4.8	309-00-2	01/21/09 20:02	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.9	K	500	0.9	3.6	1024-57-3	01/21/09 20:02	01/12/09 18:00
a-Chlordane	8081	mg/kg	3200		1E+0	250	990	5103-71-9	01/22/09 19:26	01/12/09 18:00
g-Chlordane	8081	mg/kg	2900		1E+0	180	730	5103-74-2	01/22/09 19:26	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.85	K	500	0.85	3.4	959-98-8	01/21/09 20:02	01/12/09 18:00
Dieldrin	8081	mg/kg	0.85	K	500	0.85	3.4	60-57-1	01/21/09 20:02	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.9	K	500	0.9	3.6	72-55-9	01/21/09 20:02	01/12/09 18:00
Endrin	8081	mg/kg	0.9	K	500	0.9	3.6	72-20-8	01/21/09 20:02	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.85	K	500	0.85	3.4	33213-65-9	01/21/09 20:02	01/12/09 18:00
4,4'-DDD	8081	mg/kg	19	K	10000	19	77	72-54-8	01/22/09 13:44	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.85	K	500	0.85	3.4	7421-93-4	01/21/09 20:02	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.65	K	500	0.65	2.6	1031-07-8	01/21/09 20:02	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.34	K	500	0.34	1.4	50-29-3	01/21/09 20:02	01/12/09 18:00
Mirex	8081	mg/kg	3.4	K	500	3.4	14	2385-85-5	01/21/09 20:02	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.7	K	500	0.7	2.8	53494-70-5	01/21/09 20:02	01/12/09 18:00
Methoxychlor	8081	mg/kg	1	K	500	1	4.1	72-43-5	01/21/09 20:02	01/12/09 18:00
Toxaphene	8081	mg/kg	120	K	500	120	500	8001-35-2	01/21/09 20:02	01/12/09 18:00
Percent Moisture										
% Moisture	160.3M	%	7				0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78692**
Sample Designation **CO-SB-137-3**

Matrix: Soil
Date Collected: 1/8/2009 14:51
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results		Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081										
Date Extracted	3545a		01/12/09							01/12/09 18:00
Date Analyzed			1/21/09		10				01/21/09 20:12	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	0	MI	10		11	DEP-SURR-	01/21/09 20:12	01/12/09 18:00
a-BHC	8081	mg/kg	0.031	K	10	0.031	0.13	319-84-6	01/21/09 20:12	01/12/09 18:00
b-BHC	8081	mg/kg	0.019	K	10	0.019	0.077	319-85-7	01/21/09 20:12	01/12/09 18:00
Lindane	8081	mg/kg	0.0064	K	10	0.0064	0.027	58-89-9	01/21/09 20:12	01/12/09 18:00
d-BHC	8081	mg/kg	0.023	K	10	0.023	0.094	319-86-8	01/21/09 20:12	01/12/09 18:00
Heptachlor	8081	mg/kg	91		500	1	4	76-44-8	01/22/09 16:56	01/12/09 18:00
Aldrin	8081	mg/kg	0.023	K	10	0.023	0.094	309-00-2	01/21/09 20:12	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018	K	10	0.018	0.072	1024-57-3	01/21/09 20:12	01/12/09 18:00
a-Chlordane	8081	mg/kg	340		500	1.2	4.9	5103-71-9	01/22/09 16:56	01/12/09 18:00
g-Chlordane	8081	mg/kg	210		500	0.9	3.6	5103-74-2	01/22/09 16:56	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017	K	10	0.017	0.068	959-98-8	01/21/09 20:12	01/12/09 18:00
Dieldrin	8081	mg/kg	0.017	K	10	0.017	0.068	60-57-1	01/21/09 20:12	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.018	K	10	0.018	0.072	72-55-9	01/21/09 20:12	01/12/09 18:00
Endrin	8081	mg/kg	0.018	K	10	0.018	0.072	72-20-8	01/21/09 20:12	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017	K	10	0.017	0.068	33213-65-9	01/21/09 20:12	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.96	K	500	0.96	3.8	72-54-8	01/22/09 16:56	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017	K	10	0.017	0.068	7421-93-4	01/21/09 20:12	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013	K	10	0.013	0.051	1031-07-8	01/21/09 20:12	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.0068	K	10	0.0068	0.028	50-29-3	01/21/09 20:12	01/12/09 18:00
Mirex	8081	mg/kg	0.068	K	10	0.068	0.28	2385-85-5	01/21/09 20:12	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014	K	10	0.014	0.055	53494-70-5	01/21/09 20:12	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02	K	10	0.02	0.081	72-43-5	01/21/09 20:12	01/12/09 18:00
Toxaphene	8081	mg/kg	2.4	K	10	2.4	9.8	8001-35-2	01/21/09 20:12	01/12/09 18:00
Percent Moisture										
% Moisture	160.3M	%	6				0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78693**
Sample Designation **CO-SB-137-5**

Matrix: Soil
Date Collected: 1/8/2009 14:54
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/21/09						01/21/09 16:45
Date Analyzed			2/6/09	1				02/06/09 16:51	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	62	1		1.1	DEP-SURR-	02/06/09 16:51	01/21/09 16:45
a-BHC	8081	mg/kg	0.0031 U	1	0.0031	0.013	319-84-6	02/06/09 16:51	01/21/09 16:45
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0077	319-85-7	02/06/09 16:51	01/21/09 16:45
Lindane	8081	mg/kg	0.00065 U	1	0.00065	0.0027	58-89-9	02/06/09 16:51	01/21/09 16:45
d-BHC	8081	mg/kg	0.0024 U	1	0.0024	0.0095	319-86-8	02/06/09 16:51	01/21/09 16:45
Heptachlor	8081	mg/kg	0.19	1	0.002	0.0082	76-44-8	02/06/09 16:51	01/21/09 16:45
Aldrin	8081	mg/kg	0.0024 U	1	0.0024	0.0095	309-00-2	02/06/09 16:51	01/21/09 16:45
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0073	1024-57-3	02/06/09 16:51	01/21/09 16:45
a-Chlordane	8081	mg/kg	0.72	10	0.025	0.099	5103-71-9	02/09/09 18:53	01/21/09 16:45
g-Chlordane	8081	mg/kg	0.61	10	0.018	0.073	5103-74-2	02/09/09 18:53	01/21/09 16:45
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0069	959-98-8	02/06/09 16:51	01/21/09 16:45
Dieldrin	8081	mg/kg	0.0017 U	1	0.0017	0.0069	60-57-1	02/06/09 16:51	01/21/09 16:45
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.0073	72-55-9	02/06/09 16:51	01/21/09 16:45
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0073	72-20-8	02/06/09 16:51	01/21/09 16:45
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0069	33213-65-9	02/06/09 16:51	01/21/09 16:45
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0077	72-54-8	02/06/09 16:51	01/21/09 16:45
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0069	7421-93-4	02/06/09 16:51	01/21/09 16:45
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0052	1031-07-8	02/06/09 16:51	01/21/09 16:45
4,4'-DDT	8081	mg/kg	0.00069 U	1	0.00069	0.0028	50-29-3	02/06/09 16:51	01/21/09 16:45
Mirex	8081	mg/kg	0.0069 U	1	0.0069	0.028	2385-85-5	02/06/09 16:51	01/21/09 16:45
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0056	53494-70-5	02/06/09 16:51	01/21/09 16:45
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0082	72-43-5	02/06/09 16:51	01/21/09 16:45
Toxaphene	8081	mg/kg	0.25 U	1	0.25	0.99	8001-35-2	02/06/09 16:51	01/21/09 16:45
Percent Moisture									
% Moisture	160.3M	%	7			0.11		02/03/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78694**
Sample Designation **CO-SB-138-1**

Matrix: Soil
Date Collected: 1/8/2009 15:01
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	10				01/21/09 20:23	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	58	10		11	DEP-SURR-	01/21/09 20:23	01/12/09 18:00
a-BHC	8081	mg/kg	0.031 K	10	0.031	0.13	319-84-6	01/21/09 20:23	01/12/09 18:00
b-BHC	8081	mg/kg	0.50	10	0.019	0.076	319-85-7	01/21/09 20:23	01/12/09 18:00
Lindane	8081	mg/kg	0.070	10	0.0063	0.026	58-89-9	01/21/09 20:23	01/12/09 18:00
d-BHC	8081	mg/kg	0.023 K	10	0.023	0.093	319-86-8	01/21/09 20:23	01/12/09 18:00
Heptachlor	8081	mg/kg	0.02 K	10	0.02	0.08	76-44-8	01/21/09 20:23	01/12/09 18:00
Aldrin	8081	mg/kg	0.023 K	10	0.023	0.093	309-00-2	01/21/09 20:23	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018 K	10	0.018	0.072	1024-57-3	01/21/09 20:23	01/12/09 18:00
a-Chlordane	8081	mg/kg	2.6	10	0.024	0.097	5103-71-9	01/21/09 20:23	01/12/09 18:00
g-Chlordane	8081	mg/kg	1.6	10	0.018	0.072	5103-74-2	01/21/09 20:23	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017 K	10	0.017	0.067	959-98-8	01/21/09 20:23	01/12/09 18:00
Dieldrin	8081	mg/kg	2.0	10	0.017	0.067	60-57-1	01/21/09 20:23	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.018 K	10	0.018	0.072	72-55-9	01/21/09 20:23	01/12/09 18:00
Endrin	8081	mg/kg	0.018 K	10	0.018	0.072	72-20-8	01/21/09 20:23	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017 K	10	0.017	0.067	33213-65-9	01/21/09 20:23	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.19 K	100	0.19	0.76	72-54-8	01/22/09 17:06	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017 K	10	0.017	0.067	7421-93-4	01/21/09 20:23	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013 K	10	0.013	0.051	1031-07-8	01/21/09 20:23	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.0067 K	10	0.0067	0.027	50-29-3	01/21/09 20:23	01/12/09 18:00
Mirex	8081	mg/kg	0.067 K	10	0.067	0.27	2385-85-5	01/21/09 20:23	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014 K	10	0.014	0.055	53494-70-5	01/21/09 20:23	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02 K	10	0.02	0.08	72-43-5	01/21/09 20:23	01/12/09 18:00
Toxaphene	8081	mg/kg	2.4 K	10	2.4	9.7	8001-35-2	01/21/09 20:23	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78695**
Sample Designation **CO-SB-138-3**

Matrix: Soil
Date Collected: 1/8/2009 15:04
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	10				01/21/09 20:34	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	66	10		11	DEP-SURR-	01/21/09 20:34	01/12/09 18:00
a-BHC	8081	mg/kg	0.031 K	10	0.031	0.13	319-84-6	01/21/09 20:34	01/12/09 18:00
b-BHC	8081	mg/kg	0.20	10	0.019	0.076	319-85-7	01/21/09 20:34	01/12/09 18:00
Lindane	8081	mg/kg	0.015 I	10	0.0063	0.026	58-89-9	01/21/09 20:34	01/12/09 18:00
d-BHC	8081	mg/kg	0.023 K	10	0.023	0.093	319-86-8	01/21/09 20:34	01/12/09 18:00
Heptachlor	8081	mg/kg	0.02 K	10	0.02	0.08	76-44-8	01/21/09 20:34	01/12/09 18:00
Aldrin	8081	mg/kg	0.023 K	10	0.023	0.093	309-00-2	01/21/09 20:34	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018 K	10	0.018	0.072	1024-57-3	01/21/09 20:34	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.16	10	0.024	0.097	5103-71-9	01/21/09 20:34	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.15	10	0.018	0.072	5103-74-2	01/21/09 20:34	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017 K	10	0.017	0.067	959-98-8	01/21/09 20:34	01/12/09 18:00
Dieldrin	8081	mg/kg	0.10	10	0.017	0.067	60-57-1	01/21/09 20:34	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.060 I	10	0.018	0.072	72-55-9	01/21/09 20:34	01/12/09 18:00
Endrin	8081	mg/kg	0.018 K	10	0.018	0.072	72-20-8	01/21/09 20:34	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017 K	10	0.017	0.067	33213-65-9	01/21/09 20:34	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.019 K	10	0.019	0.076	72-54-8	01/21/09 20:34	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017 K	10	0.017	0.067	7421-93-4	01/21/09 20:34	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013 K	10	0.013	0.051	1031-07-8	01/21/09 20:34	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.0067 K	10	0.0067	0.027	50-29-3	01/21/09 20:34	01/12/09 18:00
Mirex	8081	mg/kg	0.067 K	10	0.067	0.27	2385-85-5	01/21/09 20:34	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014 K	10	0.014	0.055	53494-70-5	01/21/09 20:34	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02 K	10	0.02	0.08	72-43-5	01/21/09 20:34	01/12/09 18:00
Toxaphene	8081	mg/kg	2.4 K	10	2.4	9.7	8001-35-2	01/21/09 20:34	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78696**
Sample Designation **CO-SB-138-5**

Matrix: Soil
Date Collected: 1/8/2009 15:08
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/21/09						01/21/09 16:45
Date Analyzed			2/6/09	1				02/06/09 17:02	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	59	1		1.1	DEP-SURR-	02/06/09 17:02	01/21/09 16:45
a-BHC	8081	mg/kg	0.0031 U	1	0.0031	0.013	319-84-6	02/06/09 17:02	01/21/09 16:45
b-BHC	8081	mg/kg	0.019	1	0.0019	0.0076	319-85-7	02/06/09 17:02	01/21/09 16:45
Lindane	8081	mg/kg	0.0024 I	1	0.00063	0.0026	58-89-9	02/06/09 17:02	01/21/09 16:45
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0093	319-86-8	02/06/09 17:02	01/21/09 16:45
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.008	76-44-8	02/06/09 17:02	01/21/09 16:45
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0093	309-00-2	02/06/09 17:02	01/21/09 16:45
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0072	1024-57-3	02/06/09 17:02	01/21/09 16:45
a-Chlordane	8081	mg/kg	0.0024 U	1	0.0024	0.0097	5103-71-9	02/06/09 17:02	01/21/09 16:45
g-Chlordane	8081	mg/kg	0.0018 U	1	0.0018	0.0072	5103-74-2	02/06/09 17:02	01/21/09 16:45
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0067	959-98-8	02/06/09 17:02	01/21/09 16:45
Dieldrin	8081	mg/kg	0.0017 U	1	0.0017	0.0067	60-57-1	02/06/09 17:02	01/21/09 16:45
4,4'-DDE	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-55-9	02/06/09 17:02	01/21/09 16:45
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0072	72-20-8	02/06/09 17:02	01/21/09 16:45
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0067	33213-65-9	02/06/09 17:02	01/21/09 16:45
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0076	72-54-8	02/06/09 17:02	01/21/09 16:45
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0067	7421-93-4	02/06/09 17:02	01/21/09 16:45
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0051	1031-07-8	02/06/09 17:02	01/21/09 16:45
4,4'-DDT	8081	mg/kg	0.00067 U	1	0.00067	0.0027	50-29-3	02/06/09 17:02	01/21/09 16:45
Mirex	8081	mg/kg	0.0067 U	1	0.0067	0.027	2385-85-5	02/06/09 17:02	01/21/09 16:45
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0055	53494-70-5	02/06/09 17:02	01/21/09 16:45
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.008	72-43-5	02/06/09 17:02	01/21/09 16:45
Toxaphene	8081	mg/kg	0.64 I	1	0.24	0.97	8001-35-2	02/06/09 17:02	01/21/09 16:45
Percent Moisture									
% Moisture	160.3M	%	5			0.11		02/03/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78697**
Sample Designation **CO-SB-139-1**

Matrix: Soil
Date Collected: 1/8/2009 15:10
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/22/09	10				01/22/09 17:17	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	52	10		11	DEP-SURR-	01/22/09 17:17	01/12/09 18:00
a-BHC	8081	mg/kg	0.031 K	10	0.031	0.13	319-84-6	01/22/09 17:17	01/12/09 18:00
b-BHC	8081	mg/kg	0.019 K	10	0.019	0.076	319-85-7	01/22/09 17:17	01/12/09 18:00
Lindane	8081	mg/kg	0.0063 K	10	0.0063	0.026	58-89-9	01/22/09 17:17	01/12/09 18:00
d-BHC	8081	mg/kg	0.023 K	10	0.023	0.093	319-86-8	01/22/09 17:17	01/12/09 18:00
Heptachlor	8081	mg/kg	0.040 I	10	0.02	0.08	76-44-8	01/22/09 17:17	01/12/09 18:00
Aldrin	8081	mg/kg	0.023 K	10	0.023	0.093	309-00-2	01/22/09 17:17	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018 K	10	0.018	0.072	1024-57-3	01/22/09 17:17	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.27	10	0.024	0.097	5103-71-9	01/22/09 17:17	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.30	10	0.018	0.072	5103-74-2	01/22/09 17:17	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017 K	10	0.017	0.067	959-98-8	01/22/09 17:17	01/12/09 18:00
Dieldrin	8081	mg/kg	0.072	10	0.017	0.067	60-57-1	01/22/09 17:17	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.089	10	0.018	0.072	72-55-9	01/22/09 17:17	01/12/09 18:00
Endrin	8081	mg/kg	0.018 K	10	0.018	0.072	72-20-8	01/22/09 17:17	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017 K	10	0.017	0.067	33213-65-9	01/22/09 17:17	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.019 K	10	0.019	0.076	72-54-8	01/22/09 17:17	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017 K	10	0.017	0.067	7421-93-4	01/22/09 17:17	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013 K	10	0.013	0.051	1031-07-8	01/22/09 17:17	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.099	10	0.0067	0.027	50-29-3	01/22/09 17:17	01/12/09 18:00
Mirex	8081	mg/kg	0.067 K	10	0.067	0.27	2385-85-5	01/22/09 17:17	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014 K	10	0.014	0.055	53494-70-5	01/22/09 17:17	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02 K	10	0.02	0.08	72-43-5	01/22/09 17:17	01/12/09 18:00
Toxaphene	8081	mg/kg	2.4 K	10	2.4	9.7	8001-35-2	01/22/09 17:17	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78698**
Sample Designation **CO-SB-139-3**

Matrix: Soil
Date Collected: 1/8/2009 15:12
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	50				01/21/09 20:55	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	80	50		55	DEP-SURR-	01/21/09 20:55	01/12/09 18:00
a-BHC	8081	mg/kg	0.015 K	5	0.015	0.064	319-84-6	01/22/09 17:28	01/12/09 18:00
b-BHC	8081	mg/kg	0.13 I	5	0.095	0.38	319-85-7	01/22/09 17:28	01/12/09 18:00
Lindane	8081	mg/kg	0.0032 K	5	0.0032	0.013	58-89-9	01/22/09 17:28	01/12/09 18:00
d-BHC	8081	mg/kg	0.012 K	5	0.012	0.047	319-86-8	01/22/09 17:28	01/12/09 18:00
Heptachlor	8081	mg/kg	0.11 I	50	0.1	0.4	76-44-8	01/21/09 20:55	01/12/09 18:00
Aldrin	8081	mg/kg	0.012 K	5	0.012	0.047	309-00-2	01/22/09 17:28	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.009 K	5	0.009	0.036	1024-57-3	01/22/09 17:28	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.47 I	50	0.12	0.49	5103-71-9	01/21/09 20:55	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.46	50	0.09	0.36	5103-74-2	01/21/09 20:55	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.0085 K	5	0.0085	0.034	959-98-8	01/22/09 17:28	01/12/09 18:00
Dieldrin	8081	mg/kg	0.16 I	5	0.085	0.34	60-57-1	01/22/09 17:28	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.061	5	0.009	0.036	72-55-9	01/22/09 17:28	01/12/09 18:00
Endrin	8081	mg/kg	0.009 K	5	0.009	0.036	72-20-8	01/22/09 17:28	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.0085 K	5	0.0085	0.034	33213-65-9	01/22/09 17:28	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.0096 K	5	0.0096	0.038	72-54-8	01/22/09 17:28	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.0085 K	5	0.0085	0.034	7421-93-4	01/22/09 17:28	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.0064 K	5	0.0064	0.026	1031-07-8	01/22/09 17:28	01/12/09 18:00
4,4'-DDT	8081	mg/kg	1.1	50	0.034	0.14	50-29-3	01/21/09 20:55	01/12/09 18:00
Mirex	8081	mg/kg	0.034 K	5	0.034	0.14	2385-85-5	01/22/09 17:28	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.0069 K	5	0.0069	0.028	53494-70-5	01/22/09 17:28	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.01 K	5	0.01	0.04	72-43-5	01/22/09 17:28	01/12/09 18:00
Toxaphene	8081	mg/kg	1.2 K	5	1.2	4.9	8001-35-2	01/22/09 17:28	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	6			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78699**
Sample Designation **CO-SB-139-5**

Matrix: Soil
Date Collected: 1/8/2009 15:15
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/21/09						01/21/09 16:45
Date Analyzed			2/6/09	1				02/06/09 17:12	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	59	1		1.1	DEP-SURR-	02/06/09 17:12	01/21/09 16:45
a-BHC	8081	mg/kg	0.0033 U	1	0.0033	0.014	319-84-6	02/06/09 17:12	01/21/09 16:45
b-BHC	8081	mg/kg	0.002 U	1	0.002	0.0082	319-85-7	02/06/09 17:12	01/21/09 16:45
Lindane	8081	mg/kg	0.00068 U	1	0.00068	0.0028	58-89-9	02/06/09 17:12	01/21/09 16:45
d-BHC	8081	mg/kg	0.0025 U	1	0.0025	0.01	319-86-8	02/06/09 17:12	01/21/09 16:45
Heptachlor	8081	mg/kg	0.0022 U	1	0.0022	0.0086	76-44-8	02/06/09 17:12	01/21/09 16:45
Aldrin	8081	mg/kg	0.0025 U	1	0.0025	0.01	309-00-2	02/06/09 17:12	01/21/09 16:45
Heptachlor epoxide	8081	mg/kg	0.0019 U	1	0.0019	0.0077	1024-57-3	02/06/09 17:12	01/21/09 16:45
a-Chlordane	8081	mg/kg	0.028	1	0.0026	0.01	5103-71-9	02/06/09 17:12	01/21/09 16:45
g-Chlordane	8081	mg/kg	0.019	1	0.0019	0.0077	5103-74-2	02/06/09 17:12	01/21/09 16:45
Endosulfan I	8081	mg/kg	0.0018 U	1	0.0018	0.0073	959-98-8	02/06/09 17:12	01/21/09 16:45
Dieldrin	8081	mg/kg	0.019	1	0.0018	0.0073	60-57-1	02/06/09 17:12	01/21/09 16:45
4,4'-DDE	8081	mg/kg	0.0019 U	1	0.0019	0.0077	72-55-9	02/06/09 17:12	01/21/09 16:45
Endrin	8081	mg/kg	0.0019 U	1	0.0019	0.0077	72-20-8	02/06/09 17:12	01/21/09 16:45
Endosulfan II	8081	mg/kg	0.0018 U	1	0.0018	0.0073	33213-65-9	02/06/09 17:12	01/21/09 16:45
4,4'-DDD	8081	mg/kg	0.002 U	1	0.002	0.0082	72-54-8	02/06/09 17:12	01/21/09 16:45
Endrin aldehyde	8081	mg/kg	0.0018 U	1	0.0018	0.0073	7421-93-4	02/06/09 17:12	01/21/09 16:45
Endosulfan sulfate	8081	mg/kg	0.0014 U	1	0.0014	0.0055	1031-07-8	02/06/09 17:12	01/21/09 16:45
4,4'-DDT	8081	mg/kg	0.00073 U	1	0.00073	0.003	50-29-3	02/06/09 17:12	01/21/09 16:45
Mirex	8081	mg/kg	0.0073 U	1	0.0073	0.03	2385-85-5	02/06/09 17:12	01/21/09 16:45
Endrin ketone	8081	mg/kg	0.0015 U	1	0.0015	0.0059	53494-70-5	02/06/09 17:12	01/21/09 16:45
Methoxychlor	8081	mg/kg	0.0022 U	1	0.0022	0.0086	72-43-5	02/06/09 17:12	01/21/09 16:45
Toxaphene	8081	mg/kg	0.26 U	1	0.26	1	8001-35-2	02/06/09 17:12	01/21/09 16:45
Percent Moisture									
% Moisture	160.3M	%	12			0.11		02/03/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78700**
Sample Designation **CO-SB-140-1**

Matrix: Soil
Date Collected: 1/8/2009 15:26
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/22/09	10				01/22/09 17:39	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	68	10		11	DEP-SURR-	01/22/09 17:39	01/12/09 18:00
a-BHC	8081	mg/kg	0.031 K	10	0.031	0.13	319-84-6	01/22/09 17:39	01/12/09 18:00
b-BHC	8081	mg/kg	0.019 K	10	0.019	0.076	319-85-7	01/22/09 17:39	01/12/09 18:00
Lindane	8081	mg/kg	0.0063 K	10	0.0063	0.026	58-89-9	01/22/09 17:39	01/12/09 18:00
d-BHC	8081	mg/kg	0.023 K	10	0.023	0.093	319-86-8	01/22/09 17:39	01/12/09 18:00
Heptachlor	8081	mg/kg	0.023 I	10	0.02	0.08	76-44-8	01/22/09 17:39	01/12/09 18:00
Aldrin	8081	mg/kg	0.025 I	10	0.023	0.093	309-00-2	01/22/09 17:39	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018 K	10	0.018	0.072	1024-57-3	01/22/09 17:39	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.21	10	0.024	0.097	5103-71-9	01/22/09 17:39	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.24	10	0.018	0.072	5103-74-2	01/22/09 17:39	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017 K	10	0.017	0.067	959-98-8	01/22/09 17:39	01/12/09 18:00
Dieldrin	8081	mg/kg	0.14	10	0.017	0.067	60-57-1	01/22/09 17:39	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.10	10	0.018	0.072	72-55-9	01/22/09 17:39	01/12/09 18:00
Endrin	8081	mg/kg	0.018 K	10	0.018	0.072	72-20-8	01/22/09 17:39	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017 K	10	0.017	0.067	33213-65-9	01/22/09 17:39	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.019 K	10	0.019	0.076	72-54-8	01/22/09 17:39	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017 K	10	0.017	0.067	7421-93-4	01/22/09 17:39	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013 K	10	0.013	0.051	1031-07-8	01/22/09 17:39	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.24	10	0.0067	0.027	50-29-3	01/22/09 17:39	01/12/09 18:00
Mirex	8081	mg/kg	0.067 K	10	0.067	0.27	2385-85-5	01/22/09 17:39	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014 K	10	0.014	0.055	53494-70-5	01/22/09 17:39	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02 K	10	0.02	0.08	72-43-5	01/22/09 17:39	01/12/09 18:00
Toxaphene	8081	mg/kg	2.4 K	10	2.4	9.7	8001-35-2	01/22/09 17:39	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78701**
Sample Designation **CO-SB-140-3**

Matrix: Soil
Date Collected: 1/8/2009 15:29
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	10				01/21/09 21:49	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	64	10		11	DEP-SURR-	01/21/09 21:49	01/12/09 18:00
a-BHC	8081	mg/kg	0.031 K	10	0.031	0.13	319-84-6	01/21/09 21:49	01/12/09 18:00
b-BHC	8081	mg/kg	0.041 I	10	0.019	0.077	319-85-7	01/21/09 21:49	01/12/09 18:00
Lindane	8081	mg/kg	0.0064 K	10	0.0064	0.027	58-89-9	01/21/09 21:49	01/12/09 18:00
d-BHC	8081	mg/kg	0.023 K	10	0.023	0.094	319-86-8	01/21/09 21:49	01/12/09 18:00
Heptachlor	8081	mg/kg	0.02 K	10	0.02	0.081	76-44-8	01/21/09 21:49	01/12/09 18:00
Aldrin	8081	mg/kg	0.023 K	10	0.023	0.094	309-00-2	01/21/09 21:49	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018 K	10	0.018	0.072	1024-57-3	01/21/09 21:49	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.31	10	0.024	0.098	5103-71-9	01/21/09 21:49	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.28	10	0.018	0.072	5103-74-2	01/21/09 21:49	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017 K	10	0.017	0.068	959-98-8	01/21/09 21:49	01/12/09 18:00
Dieldrin	8081	mg/kg	0.19	10	0.017	0.068	60-57-1	01/21/09 21:49	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.19	10	0.018	0.072	72-55-9	01/21/09 21:49	01/12/09 18:00
Endrin	8081	mg/kg	0.018 K	10	0.018	0.072	72-20-8	01/21/09 21:49	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017 K	10	0.017	0.068	33213-65-9	01/21/09 21:49	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.019 K	10	0.019	0.077	72-54-8	01/21/09 21:49	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017 K	10	0.017	0.068	7421-93-4	01/21/09 21:49	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013 K	10	0.013	0.051	1031-07-8	01/21/09 21:49	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.0068 K	10	0.0068	0.028	50-29-3	01/21/09 21:49	01/12/09 18:00
Mirex	8081	mg/kg	0.068 K	10	0.068	0.28	2385-85-5	01/21/09 21:49	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014 K	10	0.014	0.055	53494-70-5	01/21/09 21:49	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02 K	10	0.02	0.081	72-43-5	01/21/09 21:49	01/12/09 18:00
Toxaphene	8081	mg/kg	2.4 K	10	2.4	9.8	8001-35-2	01/21/09 21:49	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	6			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78702**
Sample Designation **CO-SB-140-5**

Matrix: Soil
Date Collected: 1/8/2009 15:31
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/21/09						01/21/09 16:45
Date Analyzed			2/6/09	1				02/06/09 17:23	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	60	1		1.1	DEP-SURR-	02/06/09 17:23	01/21/09 16:45
a-BHC	8081	mg/kg	0.0032 U	1	0.0032	0.013	319-84-6	02/06/09 17:23	01/21/09 16:45
b-BHC	8081	mg/kg	0.002 U	1	0.002	0.0079	319-85-7	02/06/09 17:23	01/21/09 16:45
Lindane	8081	mg/kg	0.00066 U	1	0.00066	0.0027	58-89-9	02/06/09 17:23	01/21/09 16:45
d-BHC	8081	mg/kg	0.0024 U	1	0.0024	0.0097	319-86-8	02/06/09 17:23	01/21/09 16:45
Heptachlor	8081	mg/kg	0.0021 U	1	0.0021	0.0084	76-44-8	02/06/09 17:23	01/21/09 16:45
Aldrin	8081	mg/kg	0.0024 U	1	0.0024	0.0097	309-00-2	02/06/09 17:23	01/21/09 16:45
Heptachlor epoxide	8081	mg/kg	0.0019 U	1	0.0019	0.0075	1024-57-3	02/06/09 17:23	01/21/09 16:45
a-Chlordane	8081	mg/kg	0.021	1	0.0025	0.01	5103-71-9	02/06/09 17:23	01/21/09 16:45
g-Chlordane	8081	mg/kg	0.017	1	0.0019	0.0075	5103-74-2	02/06/09 17:23	01/21/09 16:45
Endosulfan I	8081	mg/kg	0.0018 U	1	0.0018	0.007	959-98-8	02/06/09 17:23	01/21/09 16:45
Dieldrin	8081	mg/kg	0.011	1	0.0018	0.007	60-57-1	02/06/09 17:23	01/21/09 16:45
4,4'-DDE	8081	mg/kg	0.0019 U	1	0.0019	0.0075	72-55-9	02/06/09 17:23	01/21/09 16:45
Endrin	8081	mg/kg	0.0019 U	1	0.0019	0.0075	72-20-8	02/06/09 17:23	01/21/09 16:45
Endosulfan II	8081	mg/kg	0.0018 U	1	0.0018	0.007	33213-65-9	02/06/09 17:23	01/21/09 16:45
4,4'-DDD	8081	mg/kg	0.002 U	1	0.002	0.0079	72-54-8	02/06/09 17:23	01/21/09 16:45
Endrin aldehyde	8081	mg/kg	0.0018 U	1	0.0018	0.007	7421-93-4	02/06/09 17:23	01/21/09 16:45
Endosulfan sulfate	8081	mg/kg	0.0013 U	1	0.0013	0.0053	1031-07-8	02/06/09 17:23	01/21/09 16:45
4,4'-DDT	8081	mg/kg	0.0007 U	1	0.0007	0.0029	50-29-3	02/06/09 17:23	01/21/09 16:45
Mirex	8081	mg/kg	0.007 U	1	0.007	0.029	2385-85-5	02/06/09 17:23	01/21/09 16:45
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0057	53494-70-5	02/06/09 17:23	01/21/09 16:45
Methoxychlor	8081	mg/kg	0.0021 U	1	0.0021	0.0084	72-43-5	02/06/09 17:23	01/21/09 16:45
Toxaphene	8081	mg/kg	0.25 U	1	0.25	1	8001-35-2	02/06/09 17:23	01/21/09 16:45
Percent Moisture									
% Moisture	160.3M	%	9			0.11		02/03/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78703**
Sample Designation **CO-SB-141-1**

Matrix: Soil
Date Collected: 1/8/2009 15:36
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/22/09	5				01/22/09 17:49	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	84	5		5.5	DEP-SURR-	01/22/09 17:49	01/12/09 18:00
a-BHC	8081	mg/kg	0.016 K	5	0.016	0.065	319-84-6	01/22/09 17:49	01/12/09 18:00
b-BHC	8081	mg/kg	0.021 I	5	0.01	0.039	319-85-7	01/22/09 17:49	01/12/09 18:00
Lindane	8081	mg/kg	0.0032 K	5	0.0032	0.014	58-89-9	01/22/09 17:49	01/12/09 18:00
d-BHC	8081	mg/kg	0.012 K	5	0.012	0.048	319-86-8	01/22/09 17:49	01/12/09 18:00
Heptachlor	8081	mg/kg	0.01 K	5	0.01	0.041	76-44-8	01/22/09 17:49	01/12/09 18:00
Aldrin	8081	mg/kg	0.012 K	5	0.012	0.048	309-00-2	01/22/09 17:49	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.009 K	5	0.009	0.037	1024-57-3	01/22/09 17:49	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.14 I	5	0.12	0.5	5103-71-9	01/22/09 17:49	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.15	5	0.009	0.037	5103-74-2	01/22/09 17:49	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.0085 K	5	0.0085	0.035	959-98-8	01/22/09 17:49	01/12/09 18:00
Dieldrin	8081	mg/kg	0.037	5	0.0085	0.035	60-57-1	01/22/09 17:49	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.062	5	0.009	0.037	72-55-9	01/22/09 17:49	01/12/09 18:00
Endrin	8081	mg/kg	0.009 K	5	0.009	0.037	72-20-8	01/22/09 17:49	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.0085 K	5	0.0085	0.035	33213-65-9	01/22/09 17:49	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.060	5	0.01	0.039	72-54-8	01/22/09 17:49	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.0085 K	5	0.0085	0.035	7421-93-4	01/22/09 17:49	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.0065 K	5	0.0065	0.026	1031-07-8	01/22/09 17:49	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.054	5	0.0035	0.014	50-29-3	01/22/09 17:49	01/12/09 18:00
Mirex	8081	mg/kg	0.035 K	5	0.035	0.14	2385-85-5	01/22/09 17:49	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.007 K	5	0.007	0.028	53494-70-5	01/22/09 17:49	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.01 K	5	0.01	0.042	72-43-5	01/22/09 17:49	01/12/09 18:00
Toxaphene	8081	mg/kg	1.2 K	5	1.2	5	8001-35-2	01/22/09 17:49	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	8			0.11		01/13/09	

SunLabs, Inc.
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Laboratory ID Number - E84809

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Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78704**
Sample Designation **CO-SB-141-3**

Matrix: Soil
Date Collected: 1/8/2009 15:39
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/22/09	1				01/22/09 18:00	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	71	1		13	DEP-SURR-	01/22/09 18:00	01/12/09 18:00
a-BHC	8081	mg/kg	0.0039 U	1	0.0039	0.016	319-84-6	01/22/09 18:00	01/12/09 18:00
b-BHC	8081	mg/kg	0.0024 U	1	0.0024	0.0096	319-85-7	01/22/09 18:00	01/12/09 18:00
Lindane	8081	mg/kg	0.0008 U	1	0.0008	0.0033	58-89-9	01/22/09 18:00	01/12/09 18:00
d-BHC	8081	mg/kg	0.0029 U	1	0.0029	0.012	319-86-8	01/22/09 18:00	01/12/09 18:00
Heptachlor	8081	mg/kg	0.0050 I	1	0.0025	0.01	76-44-8	01/22/09 18:00	01/12/09 18:00
Aldrin	8081	mg/kg	0.0029 U	1	0.0029	0.012	309-00-2	01/22/09 18:00	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.0023 U	1	0.0023	0.0091	1024-57-3	01/22/09 18:00	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.022	1	0.0031	0.012	5103-71-9	01/22/09 18:00	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.020	1	0.0023	0.0091	5103-74-2	01/22/09 18:00	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.0021 U	1	0.0021	0.0085	959-98-8	01/22/09 18:00	01/12/09 18:00
Dieldrin	8081	mg/kg	0.0034 I	1	0.0021	0.0085	60-57-1	01/22/09 18:00	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.0035 I	1	0.0023	0.0091	72-55-9	01/22/09 18:00	01/12/09 18:00
Endrin	8081	mg/kg	0.0023 U	1	0.0023	0.0091	72-20-8	01/22/09 18:00	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.0021 U	1	0.0021	0.0085	33213-65-9	01/22/09 18:00	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.0024 U	1	0.0024	0.0096	72-54-8	01/22/09 18:00	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.0021 U	1	0.0021	0.0085	7421-93-4	01/22/09 18:00	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.0016 U	1	0.0016	0.0064	1031-07-8	01/22/09 18:00	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.00085 U	1	0.00085	0.0035	50-29-3	01/22/09 18:00	01/12/09 18:00
Mirex	8081	mg/kg	0.0085 U	1	0.0085	0.035	2385-85-5	01/22/09 18:00	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.0017 U	1	0.0017	0.0069	53494-70-5	01/22/09 18:00	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.0025 U	1	0.0025	0.01	72-43-5	01/22/09 18:00	01/12/09 18:00
Toxaphene	8081	mg/kg	0.31 U	1	0.31	1.2	8001-35-2	01/22/09 18:00	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	25			0.13		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number ***78705***
Sample Designation **CO-SB-141-5**

Matrix *Soil*
Date Collected 1/8/2009 15:42
Date Received 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Hold									
Hold			NA	1				02/10/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78706**
Sample Designation **CO-SB-142-1**

Matrix: Soil
Date Collected: 1/8/2009 15:46
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/22/09	10				01/22/09 18:11	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	61	10		11	DEP-SURR-	01/22/09 18:11	01/12/09 18:00
a-BHC	8081	mg/kg	0.031 K	10	0.031	0.13	319-84-6	01/22/09 18:11	01/12/09 18:00
b-BHC	8081	mg/kg	0.019 K	10	0.019	0.076	319-85-7	01/22/09 18:11	01/12/09 18:00
Lindane	8081	mg/kg	0.0063 K	10	0.0063	0.026	58-89-9	01/22/09 18:11	01/12/09 18:00
d-BHC	8081	mg/kg	0.023 K	10	0.023	0.093	319-86-8	01/22/09 18:11	01/12/09 18:00
Heptachlor	8081	mg/kg	0.02 K	10	0.02	0.08	76-44-8	01/22/09 18:11	01/12/09 18:00
Aldrin	8081	mg/kg	0.023 K	10	0.023	0.093	309-00-2	01/22/09 18:11	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.018 K	10	0.018	0.072	1024-57-3	01/22/09 18:11	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.097	10	0.024	0.097	5103-71-9	01/22/09 18:11	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.093	10	0.018	0.072	5103-74-2	01/22/09 18:11	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.017 K	10	0.017	0.067	959-98-8	01/22/09 18:11	01/12/09 18:00
Dieldrin	8081	mg/kg	0.073	10	0.017	0.067	60-57-1	01/22/09 18:11	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.075	10	0.018	0.072	72-55-9	01/22/09 18:11	01/12/09 18:00
Endrin	8081	mg/kg	0.018 K	10	0.018	0.072	72-20-8	01/22/09 18:11	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.017 K	10	0.017	0.067	33213-65-9	01/22/09 18:11	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.019 K	10	0.019	0.076	72-54-8	01/22/09 18:11	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.017 K	10	0.017	0.067	7421-93-4	01/22/09 18:11	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.013 K	10	0.013	0.051	1031-07-8	01/22/09 18:11	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.0067 K	10	0.0067	0.027	50-29-3	01/22/09 18:11	01/12/09 18:00
Mirex	8081	mg/kg	0.067 K	10	0.067	0.27	2385-85-5	01/22/09 18:11	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.014 K	10	0.014	0.055	53494-70-5	01/22/09 18:11	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.02 K	10	0.02	0.08	72-43-5	01/22/09 18:11	01/12/09 18:00
Toxaphene	8081	mg/kg	3.2 I	10	2.4	9.7	8001-35-2	01/22/09 18:11	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	5			0.11		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78707**
Sample Designation **CO-SB-142-3**

Matrix: Soil
Date Collected: 1/8/2009 15:48
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	1				01/21/09 22:31	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	55	1		1	DEP-SURR-	01/21/09 22:31	01/12/09 18:00
a-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-84-6	01/21/09 22:31	01/12/09 18:00
b-BHC	8081	mg/kg	0.0019 U	1	0.0019	0.0075	319-85-7	01/21/09 22:31	01/12/09 18:00
Lindane	8081	mg/kg	0.00062 U	1	0.00062	0.0026	58-89-9	01/21/09 22:31	01/12/09 18:00
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0092	319-86-8	01/21/09 22:31	01/12/09 18:00
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0079	76-44-8	01/21/09 22:31	01/12/09 18:00
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0092	309-00-2	01/21/09 22:31	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0071	1024-57-3	01/21/09 22:31	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.015	1	0.0024	0.0096	5103-71-9	01/21/09 22:31	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.015	1	0.0018	0.0071	5103-74-2	01/21/09 22:31	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0067	959-98-8	01/21/09 22:31	01/12/09 18:00
Dieldrin	8081	mg/kg	0.013	1	0.0017	0.0067	60-57-1	01/21/09 22:31	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.0029 I	1	0.0018	0.0071	72-55-9	01/21/09 22:31	01/12/09 18:00
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0071	72-20-8	01/21/09 22:31	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0067	33213-65-9	01/21/09 22:31	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0075	72-54-8	01/21/09 22:31	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0067	7421-93-4	01/21/09 22:31	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.0012 U	1	0.0012	0.005	1031-07-8	01/21/09 22:31	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.00067 U	1	0.00067	0.0027	50-29-3	01/21/09 22:31	01/12/09 18:00
Mirex	8081	mg/kg	0.0067 U	1	0.0067	0.027	2385-85-5	01/21/09 22:31	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0054	53494-70-5	01/21/09 22:31	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0079	72-43-5	01/21/09 22:31	01/12/09 18:00
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.96	8001-35-2	01/21/09 22:31	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	4			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78708**
Sample Designation **CO-SB-142-5**

Matrix: Soil
Date Collected: 1/8/2009 15:50
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Hold									
Hold			NA	1				02/10/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78709**
Sample Designation **CO-SB-143-1**

Matrix: Soil
Date Collected: 1/8/2009 15:52
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	50				01/21/09 22:42	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	74	50		50	DEP-SURR-	01/21/09 22:42	01/12/09 18:00
a-BHC	8081	mg/kg	0.15 K	50	0.15	0.6	319-84-6	01/21/09 22:42	01/12/09 18:00
b-BHC	8081	mg/kg	0.19 I	50	0.095	0.38	319-85-7	01/21/09 22:42	01/12/09 18:00
Lindane	8081	mg/kg	0.031 K	50	0.031	0.13	58-89-9	01/21/09 22:42	01/12/09 18:00
d-BHC	8081	mg/kg	0.12 K	50	0.12	0.46	319-86-8	01/21/09 22:42	01/12/09 18:00
Heptachlor	8081	mg/kg	0.1 K	50	0.1	0.4	76-44-8	01/21/09 22:42	01/12/09 18:00
Aldrin	8081	mg/kg	0.12 K	50	0.12	0.46	309-00-2	01/21/09 22:42	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.09 K	50	0.09	0.36	1024-57-3	01/21/09 22:42	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.54	50	0.12	0.48	5103-71-9	01/21/09 22:42	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.57	50	0.09	0.36	5103-74-2	01/21/09 22:42	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.085 K	50	0.085	0.34	959-98-8	01/21/09 22:42	01/12/09 18:00
Dieldrin	8081	mg/kg	0.083 K	50	0.083	0.33	60-57-1	01/21/09 22:42	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.21 I	50	0.09	0.36	72-55-9	01/21/09 22:42	01/12/09 18:00
Endrin	8081	mg/kg	0.09 K	50	0.09	0.36	72-20-8	01/21/09 22:42	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.085 K	50	0.085	0.34	33213-65-9	01/21/09 22:42	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.095 K	50	0.095	0.38	72-54-8	01/21/09 22:42	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.085 K	50	0.085	0.34	7421-93-4	01/21/09 22:42	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.06 K	50	0.06	0.25	1031-07-8	01/21/09 22:42	01/12/09 18:00
4,4'-DDT	8081	mg/kg	2.2	50	0.034	0.14	50-29-3	01/21/09 22:42	01/12/09 18:00
Mirex	8081	mg/kg	0.34 K	50	0.34	1.4	2385-85-5	01/21/09 22:42	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.07 K	50	0.07	0.27	53494-70-5	01/21/09 22:42	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.1 K	50	0.1	0.4	72-43-5	01/21/09 22:42	01/12/09 18:00
Toxaphene	8081	mg/kg	12 K	50	12	48	8001-35-2	01/21/09 22:42	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	4			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78710**
Sample Designation **CO-SB-143-3**

Matrix: Soil
Date Collected: 1/8/2009 15:54
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3545a		01/12/09						01/12/09 18:00
Date Analyzed			1/21/09	1				01/21/09 22:53	
2,4,5,6-tetrachloro-m-xylene (16-141)	8081	%	46	1		1	DEP-SURR-	01/21/09 22:53	01/12/09 18:00
a-BHC	8081	mg/kg	0.003 U	1	0.003	0.012	319-84-6	01/21/09 22:53	01/12/09 18:00
b-BHC	8081	mg/kg	0.028	1	0.0019	0.0075	319-85-7	01/21/09 22:53	01/12/09 18:00
Lindane	8081	mg/kg	0.00062 U	1	0.00062	0.0026	58-89-9	01/21/09 22:53	01/12/09 18:00
d-BHC	8081	mg/kg	0.0023 U	1	0.0023	0.0092	319-86-8	01/21/09 22:53	01/12/09 18:00
Heptachlor	8081	mg/kg	0.002 U	1	0.002	0.0079	76-44-8	01/21/09 22:53	01/12/09 18:00
Aldrin	8081	mg/kg	0.0023 U	1	0.0023	0.0092	309-00-2	01/21/09 22:53	01/12/09 18:00
Heptachlor epoxide	8081	mg/kg	0.0018 U	1	0.0018	0.0071	1024-57-3	01/21/09 22:53	01/12/09 18:00
a-Chlordane	8081	mg/kg	0.020	1	0.0024	0.0096	5103-71-9	01/21/09 22:53	01/12/09 18:00
g-Chlordane	8081	mg/kg	0.018	1	0.0018	0.0071	5103-74-2	01/21/09 22:53	01/12/09 18:00
Endosulfan I	8081	mg/kg	0.0017 U	1	0.0017	0.0067	959-98-8	01/21/09 22:53	01/12/09 18:00
Dieldrin	8081	mg/kg	0.018	1	0.0017	0.0067	60-57-1	01/21/09 22:53	01/12/09 18:00
4,4'-DDE	8081	mg/kg	0.0080	1	0.0018	0.0071	72-55-9	01/21/09 22:53	01/12/09 18:00
Endrin	8081	mg/kg	0.0018 U	1	0.0018	0.0071	72-20-8	01/21/09 22:53	01/12/09 18:00
Endosulfan II	8081	mg/kg	0.0017 U	1	0.0017	0.0067	33213-65-9	01/21/09 22:53	01/12/09 18:00
4,4'-DDD	8081	mg/kg	0.0019 U	1	0.0019	0.0075	72-54-8	01/21/09 22:53	01/12/09 18:00
Endrin aldehyde	8081	mg/kg	0.0017 U	1	0.0017	0.0067	7421-93-4	01/21/09 22:53	01/12/09 18:00
Endosulfan sulfate	8081	mg/kg	0.0012 U	1	0.0012	0.005	1031-07-8	01/21/09 22:53	01/12/09 18:00
4,4'-DDT	8081	mg/kg	0.013	1	0.00067	0.0027	50-29-3	01/21/09 22:53	01/12/09 18:00
Mirex	8081	mg/kg	0.0067 U	1	0.0067	0.027	2385-85-5	01/21/09 22:53	01/12/09 18:00
Endrin ketone	8081	mg/kg	0.0014 U	1	0.0014	0.0054	53494-70-5	01/21/09 22:53	01/12/09 18:00
Methoxychlor	8081	mg/kg	0.002 U	1	0.002	0.0079	72-43-5	01/21/09 22:53	01/12/09 18:00
Toxaphene	8081	mg/kg	0.24 U	1	0.24	0.96	8001-35-2	01/21/09 22:53	01/12/09 18:00
Percent Moisture									
% Moisture	160.3M	%	4			0.1		01/13/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

SunLabs Sample Number **78711**
Sample Designation **CO-SB-143-5**

Matrix: Soil
Date Collected: 1/8/2009 15:56
Date Received: 1/10/2009 17:20

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Hold									
Hold			NA	1				02/10/09	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

Footnotes

*	SunLabs is not currently NELAC certified for this analyte.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
K	The value is known to be less than the reported value based on sample size, dilution or some other variable.
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MI	Matrix Interference
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Sample not analyzed at client's request.
RL	RL(reporting limit) = PQL(practical quantitation limit).
RPD	Relative Percent Difference
SD	Surrogate diluted out of range.
U	Compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.

Quality Control Data

Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

Batch No: C7825

Test: Organochlorine Pesticides by EPA Method 8081

TestCode: 8081-s1

Associated Samples
78668, 78669, 78670, 78671, 78672, 78673, 78674, 78675, 78676, 78677, 78678, 78679, 78680, 78681, 78682, 78683, 78684

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*78681*	*78681*					
2,4,5,6-tetrachloro-m-xylene (16-141)	67														
a-BHC	0.0029 U														
b-BHC	0.0018 U														
Lindane	0.0006 U	100	77	79	3	15	48-119	100	98	101	3	24	21-148		
d-BHC	0.0022 U														
Heptachlor	0.0019 U	100	94	94	0	14	46-113	100	77	77	0	25	13-160		
Aldrin	0.0022 U	100	81	83	2	14	45-114	100	0*	0*	NA	25	2-164		
Heptachlor epoxide	0.0017 U														
a-Chlordane	0.0023 U														
g-Chlordane	0.0017 U														
Endosulfan I	0.0016 U														
Dieldrin	0.0016 U	100	76	78	3	15	44-105	100	0	0	NA	33	0-192		
4,4'-DDE	0.0017 U														
Endrin	0.0017 U	100	89	88	1	19	30-142	100	94	84	11	42	0-207		
Endosulfan II	0.0016 U														
4,4'-DDD	0.0018 U														
Endrin aldehyde	0.0016 U														
Endosulfan sulfate	0.0012 U														
4,4'-DDT	0.00064 U	100	74	75	1	12	47-118	100	82	87	6	78	0-287		
Mirex	0.0064 U														
Endrin ketone	0.0013 U														
Methoxychlor	0.0019 U														
Toxaphene	0.23 U														

Batch No: C7829

Test: Organochlorine Pesticides by EPA Method 8081

TestCode: 8081-s1

Associated Samples
78685, 78686, 78687, 78688, 78689, 78691, 78692, 78694, 78695, 78697, 78698, 78700, 78701, 78703, 78704, 78706, 78707, 78709, 78710

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*78685*	*78685*					
2,4,5,6-tetrachloro-m-xylene (16-141)	59														
a-BHC	0.0029 U														
b-BHC	0.0018 U														
Lindane	0.0006 U	100	76	82	8	15	48-119	100	88	84	5	24	21-148		
d-BHC	0.0022 U														
Heptachlor	0.0019 U	100	79	84	6	14	46-113	100	88	84	5	25	13-160		
Aldrin	0.0022 U	100	80	87	8	14	45-114	100	91	88	3	25	2-164		
Heptachlor epoxide	0.0017 U														
a-Chlordane	0.0023 U														
g-Chlordane	0.0017 U														
Endosulfan I	0.0016 U														
Dieldrin	0.0016 U	100	76	83	9	15	44-105	100	99	96	3	33	0-192		
4,4'-DDE	0.0017 U														
Endrin	0.0017 U	100	79	87	10	19	30-142	100	99	94	5	42	0-207		
Endosulfan II	0.0016 U														
4,4'-DDD	0.0018 U														
Endrin aldehyde	0.0016 U														
Endosulfan sulfate	0.0012 U														
4,4'-DDT	0.00064 U	100	91	96	5	12	47-118	100	117	114	3	78	0-287		
Mirex	0.0064 U														
Endrin ketone	0.0013 U														

Quality Control Data

Project Number	TASK Environmental , Inc.
090111.01	Project Description: Chevron Orlando

February 10, 2009

Batch No: C7829

Test: Organochlorine Pesticides by EPA Method 8081

TestCode: 8081-s1

Associated Samples
78685, 78686, 78687, 78688, 78689, 78691, 78692, 78694, 78695, 78697, 78698, 78700, 78701, 78703, 78704, 78706, 78707, 78709, 78710

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*78685*	*78685*					
Methoxychlor	0.0019 U														
Toxaphene	0.23 U														

Batch No: C8057

Test: Organochlorine Pesticides by EPA Method 8081

TestCode: 8081-s1

Associated Samples
78693, 78696, 78699, 78702

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*78690*	*78690*					
2,4,5,6-tetrachloro-m-xylene (16-141)	62														
a-BHC	0.0029 U														
b-BHC	0.0018 U														
Lindane	0.0006 U	100	64	69	8	15	48-119	100	72	77	7	24	21-148		
d-BHC	0.0022 U														
Heptachlor	0.0019 U	100	63	68	8	14	46-113	100	73	77	5	25	13-160		
Aldrin	0.0022 U	100	64	68	6	14	45-114	100	72	75	4	25	2-164		
Heptachlor epoxide	0.0017 U														
a-Chlordane	0.0023 U														
g-Chlordane	0.0017 U														
Endosulfan I	0.0016 U														
Dieldrin	0.0016 U	100	66	71	7	15	44-105	100	0	0	NA	33	0-192		
4,4'-DDE	0.0017 U														
Endrin	0.0017 U	100	103	110	7	19	30-142	100	0	0	NA	42	0-207		
Endosulfan II	0.0016 U														
4,4'-DDD	0.0018 U														
Endrin aldehyde	0.0016 U														
Endosulfan sulfate	0.0012 U														
4,4'-DDT	0.00064 U	100	101	104	3	12	47-118	100	0	0	NA	78	0-287		
Mirex	0.0064 U														
Endrin ketone	0.0013 U														
Methoxychlor	0.0019 U														
Toxaphene	0.23 U														

* indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

I	*The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.*
MSA	*The results of the matrix spike are out of range due to a high amount of target analyte(s) in the original sample.*
Q1	*The result for the spike(s) were not within acceptable control limits. However, the LCS data was within acceptable control limits. Therefore the poor spike results can be attributed to matrix.*
U	*Compound was analyzed for but not detected.*

SunLabs, Inc. Chain of Custody

№ 18944

Client Name: TASK
Contact: Susan Tobin
Address: 27751 Lake Jem Rd. Mount Dora FL 32757
Phone / Fax: 352 383-0717
E-Mail:

SunLabs Project # 090111.01

Project Name: Chevron Orlando
Project #: EO 215
PO #:
Alt Bill To: Arcadis Allenjust

SunLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	8081 (GCP)
	Bottle Type				S
	Preservative				I
	Matrix				SO
	CO·SB·126·1'	1/8/09	0910	1	✓
	CO·SB·126·3'		0918	1	✓
	CO·SB·127·1'		0955	1	✓
	CO·SB·127·3'		1056	1	✓
	CO·SB·128·1'		1125	1	✓
	CO·SB·128·3'		1129	1	✓
	CO·SB·129·1'		1017	1	✓
	CO·SB·129·3'		1019	1	✓
	CO·SB·130·1'		1037	1	✓
	CO·SB·130·3'		1041	1	✓
	CO·SB·131·1'		1108	1	✓
	CO·SB·131·3'		1113	1	✓
	CO·SB·132·1'		1138	1	✓
	CO·SB·132·3'		1141	1	✓

Due Date Requested:

☐ FDEP PreApproval site ☐ Current rates ☐ Old rates

☐ Cash rates

Remarks / Comments:

Sampler Signature / Date: 1/8/09

Printed Name / Affiliation: nicole petrosky/Arcadis

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES

Relinquished By:	Relinquished To:	Date:	Time:
LA Palmer		1/9/09	
		09	
		1/10/09	1720

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit; GA = Glass Amber; T = Tedlar Bag; P = Plastic; O = Other; S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice; I = Ice only; VS = MeOH, OFW, + Ice; N = Nitric Acid + Ice; O = Other (Specify)

Matrix Codes:
A = Air; SO = Soil; SOL = Solid; DW = Drinking Water; SW = Surface Water; GW = Ground Water; W = Water (Blanks); SE = Sediment; O = Other (Specify)

Internal Use Only
Sample Comment Upon Receipt
Custody Seal Present? Y N NA
Shipping Bill attached? Y N NA
Sample Container Intact? Y N NA
Sample received within holding time? Y N NA
Sample volume for all analyses? Y N NA
Proper container and preservative? Y N NA

Temp: 4°C
Received on Ice? Y N NA

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Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

1/23/09

2

SunLabs, Inc. Chain of Custody

№ 18930

Client Name: TASK
Contact: Susan Tobin
Address: 27751 Lake Jem Rd
Mt Dora FL 32757
Phone / Fax: 352·383·0717
E-Mail :

SunLabs Project # 090111.01

Bottle Type	S
Preservative	I
Matrix	SO
Analysis / Method Requested	8081 (OCP)

Project Name: Chevron Orlando
Project #: CO 215
PO #:
Alt Bill To: Arcadis Allen Just

SunLabs Sample #	Sample Description	Sample ~~Date~~ Time	Sample ~~Time~~ DATE	# of Bottles	8081 (OCP)
[illegible]	CO·SB·133·1'	1149	1/8/09	1	✓
[illegible]	CO·SB·133·3'	1151	↓	1	✓
[illegible]	CO·SB·134·1'	1335		1	✓
[illegible]	CO·SB·134·3'	1339		1	✓
[illegible]	CO·SB·135·1'	1357		1	✓
[illegible]	CO·SB·135·3'	1400		1	✓
[illegible]	CO·SB·136·1'	1434		1	✓
[illegible]	CO·SB·136·3'	1436		1	✓
[illegible]	CO·SB·136·5' ⊛	1439		1	✓
[illegible]	CO·SB·137·1'	1449		1	✓
[illegible]	CO·SB·137·3'	1451		1	✓
[illegible]	CO·SB·137·5' ⊛	1454		1	✓
[illegible]	CO·SB·138·1'	1501		1	✓
[illegible]	CO·SB·138·3'	1504	↓	1	✓

Due Date Requested:

☐ FDEP PreApproval site
☐ Current rates ☐ Old rates
☐ Cash rates

Remarks / Comments:
⊛ = hold for analysis pending correlating Sample location Results. Telecom Allen Just.

Sampler Signature / Date: [signature] 1/8/09

Printed Name / Affiliation: nicole petrosky / Arcadis

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES

Relinquished By:	Relinquished To:	Date:	Time:
LA Palmer	[signature]		
[signature]	[signature]	1/12/09	1720

Bottle Type Codes:
GV = Glass Vial
GVS = Low Level Volatile Kit
GA = Glass Amber
T = Tedlar Bag
P = Plastic
O = Other
S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice
S = Sulfuric Acid + Ice
I = Ice only
VS = MeOH, OFW, + Ice
N = Nitric Acid + Ice
O = Other (Specify)

Matrix Codes:
SO = Soil
A = Air
SOL = Solid
DW = Drinking Water
SW = Surface Water
GW = Ground Water
W = Water (Blanks)
SE = Sediment
O = Other (Specify)

Temp: [illegible]
Received on Ice? Y N NA

Internal Use Only
Sample Condition Upon Receipt: [illegible]

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

A3

SunLabs, Inc. Chain of Custody

№ 18929

Client Name: TASK
Contact: Susan Tobin
Address: 27751 Lake Jem Rd. Mt. Dora FL 32757
Phone / Fax: 352.383.0717
E-Mail :

SunLabs Project # 090111.01

Bottle Type	S
Preservative	I
Matrix	SO
Analysis / Method Requested	8081 (OCP)

Project Name: Chevron Orlando
Project #: CO 215
PO #:
Alt Bill To: Arcadis Allen Just

SunLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	8081 (OCP)
[illegible]	CO.SB.138.5' ⊛	1/8/09	1508	1	✓
[illegible]	CO.SB.139.1'		1510	1	✓
[illegible]	CO.SB.139.3'		1512	1	✓
[illegible]	CO.SB.139.5' ⊛		1515	1	✓
[illegible]	CO.SB.140.1'		1526	1	✓
[illegible]	CO.SB.140.3'		1529	1	✓
[illegible]	CO.SB.140.5' ⊛		1531	1	✓
[illegible]	CO.SB.141.1'		1536	1	✓
[illegible]	CO.SB.141.3'		1539	1	✓
[illegible]	CO.SB.141.5' ⊛		1542	1	✓
[illegible]	CO.SB.142.1'		1546	1	✓
[illegible]	CO.SB.142.3'		1548	1	✓
[illegible]	CO.SB.142.5' ⊛		1550	1	✓
[illegible]	CO.SB.143.1'	↓	1552	1	✓

Due Date Requested:

☐ FDEP PreApproval site ☐ Current rates ☐ Old rates
☐ Cash rates

Remarks / Comments:
⊛ = hold for analysis pending correlating sample loc. Results. Telecom Allen Just

Sampler Signature / Date: [signature] 1/8/09
Printed Name / Affiliation: nicole petrusky / Arcadis

SUNLABS INC. RESERVES THE RIGHT TO BILL FOR UNUSED / UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES

Relinquished By:	Relinquished To:	Date:	Time:
LA Palmer	[signature]		
[signature]	[signature]	1/10/08	1720

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit; GA = Glass Amber; T = Tedlar Bag; P = Plastic; O = Other; S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice; I = Ice only; VS = MeOH, OFW, + Ice; N = Nitric Acid + Ice; O = Other (Specify)

Matrix Codes:
SO = Soil; A = Air; SOL = Solid; DW = Drinking Water; SW = Surface Water; GW = Ground Water; W = Water (Blanks); SE = Sediment; O = Other (Specify)

Temp: [illegible]
Received on Ice? Y / N / NA

Internal Use Only: Sample Condition Upon Receipt: [illegible]

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e-mail: info@SunLabsInc.com www.SunLabsInc.com

4

№ 18896

SunLabs, Inc. Chain of Custody

Client Name: TASK
Contact: Susan Tobin
Address: 27751 Lake Jem Rd. Mt. Dora FL 32757
Phone / Fax: 352.383.0717
E-Mail :

SunLabs Project # 090111.01

Project Name: Chevron Orlando
Project #: CO 215
PO #:
Alt Bill To: Arcadis Allen Just

				Bottle Type	S
				Preservative	I
				Matrix	SO
				Analysis / Method Requested	8081 (OCP)
SunLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	
[illegible]	CO.SB.143 @ 3'	1/8/09	1554	1	✓
[illegible]	CO.SB.143 @ 5' (*)	↓	1556	1	✓

Due Date Requested:

☐ FDEP PreApproval site
☐ Current rates ☐ Old rates
☐ Cash rates

Remarks / Comments:

(*) hold for Analysis pending Results.

Telecom Allen Just

Sampler Signature / Date: [signature] 1/8/09

Printed Name / Affiliation: nicole Petrosky / Arcadis

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
LA Palmer	[signature]	1/4/08	
[signature]	[signature]	1/10/08	1720

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit; GA = Glass Amber; T = Tedlar Bag; P = Plastic; O = Other; S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice; I = Ice only; VS = MeOH, OFW, + Ice; N = Nitric Acid + Ice; O = Other (Specify)

Matrix Codes:
SO = Soil; A = Air; SOL = Solid; DW = Drinking Water; SW = Surface Water; GW = Ground Water; W = Water (Blanks); SE = Sediment; O = Other (Specify)

Internal Use Only
Sample Condition Upon Receipt:
Custody Seals present? Y N NA
Shipping Bills attached? Y N NA
Sample containers intact? Y N NA
Samples within holding times? Y N NA
Sufficient volume for all analyses? Y N NA
Are Vials head space free? Y N NA
Proper containers and preservatives? Y N NA

Temp: 1

Received on Ice? Y N NA

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

April 26, 2010

Susan Tobin
TASK Environmental , Inc.
27751 Lake Jem Road
Mount Dora, FL 32757

Re: SunLabs Project Number: **100408.07**
Client Project Description: **Chevron Orlando**

Dear Mrs. Tobin:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
100017	CO-GW-MW-49D	4/5/2010
100018	CO-GW-MW-29D	4/5/2010
100019	CO-GW-MW-11S	4/5/2010
100020	CO-GW-MW-47D	4/5/2010
100021	CO-GW-MW-48D	4/5/2010
100022	CO-GW-MW-23M	4/6/2010
100023	CO-GW-MW-15S	4/6/2010
100024	CO-GW-MW-115S	4/6/2010
100025	CO-GW-MW-32D	4/6/2010
100026	CO-GW-MW-30D	4/6/2010
100027	CO-GW-MW-41D	4/6/2010
100028	CO-GW-MW-44S	4/6/2010
100029	CO-GW-MW-44D	4/6/2010
100030	CO-GW-MW-45S	4/6/2010
100031	CO-GW-MW-45D	4/6/2010
100032	CO-GW-MW-16S	4/7/2010
100033	CO-GW-MW-16D	4/7/2010
100034	CO-GW-MW-36S	4/7/2010
100079	CO-GW-MW-1D	4/8/2010
100080	CO-GW-MW-101D	4/8/2010
100081	CO-GW-MW-36D	4/8/2010
100082	CO-GW-MW-50S	4/8/2010
100083	CO-GW-MW-50D	4/8/2010
100084	CO-GW-EQBK-1	4/8/2010
100085	CO-SO-COMP-1	4/8/2010
100086	TCLP Leachate/100085 (CO-SO-COMP-1)	

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer

Michael W. Palmer
Vice President, Laboratory Operations

Enclosures

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520
Tampa, FL 33634

Phone: (813) 881-9401
Email: Info@SunLabsInc.com
Website: www.SunLabsInc.com

Unless Otherwise Noted and Where Applicable:

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100017**
Sample Designation **CO-GW-MW-49D**

Matrix: Groundwater
Date Collected: 4/5/2010 14:21
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 13:09	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	124	1		1	DEP-SURR-	04/15/10 13:09	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 13:09	04/12/10 16:30
a-BHC	8081	ug/L	1.2	20	0.046	0.18	319-84-6	04/18/10 13:16	04/12/10 16:30
b-BHC	8081	ug/L	0.55	1	0.003	0.012	319-85-7	04/15/10 13:09	04/12/10 16:30
d-BHC	8081	ug/L	5.0	20	0.046	0.18	319-86-8	04/18/10 13:16	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 13:09	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 13:09	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 13:09	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 13:09	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 13:09	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 13:09	04/12/10 16:30
Endosulfan I	8081	ug/L	0.45	1	0.0019	0.0076	959-98-8	04/15/10 13:09	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 13:09	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 13:09	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 13:09	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 13:09	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 13:09	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 13:09	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 13:09	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 13:09	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 13:09	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 13:09	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 13:09	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	25.8	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100018**
Sample Designation **CO-GW-MW-29D**

Matrix: Groundwater
Date Collected: 4/5/2010 15:14
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 13:19	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	51	1		1	DEP-SURR-	04/15/10 13:19	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 13:19	04/12/10 16:30
a-BHC	8081	ug/L	0.029 I	10	0.023	0.092	319-84-6	04/18/10 13:40	04/12/10 16:30
b-BHC	8081	ug/L	0.15	1	0.003	0.012	319-85-7	04/15/10 13:19	04/12/10 16:30
d-BHC	8081	ug/L	0.31	1	0.0023	0.0092	319-86-8	04/15/10 13:19	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 13:19	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 13:19	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 13:19	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 13:19	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 13:19	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 13:19	04/12/10 16:30
Endosulfan I	8081	ug/L	0.15	1	0.0019	0.0076	959-98-8	04/15/10 13:19	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 13:19	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 13:19	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 13:19	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 13:19	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 13:19	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 13:19	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 13:19	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 13:19	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 13:19	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 13:19	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 13:19	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	68.8	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100019**
Sample Designation **CO-GW-MW-11S**

Matrix: Groundwater
Date Collected: 4/5/2010 15:32
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 13:30	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	55	1		1	DEP-SURR-	04/15/10 13:30	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 13:30	04/12/10 16:30
a-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-84-6	04/15/10 13:30	04/12/10 16:30
b-BHC	8081	ug/L	0.003 U	1	0.003	0.012	319-85-7	04/15/10 13:30	04/12/10 16:30
d-BHC	8081	ug/L	0.0054 I	1	0.0023	0.0092	319-86-8	04/15/10 13:30	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 13:30	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 13:30	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 13:30	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 13:30	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 13:30	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 13:30	04/12/10 16:30
Endosulfan I	8081	ug/L	0.022	1	0.0019	0.0076	959-98-8	04/15/10 13:30	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 13:30	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 13:30	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 13:30	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 13:30	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 13:30	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 13:30	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 13:30	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 13:30	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 13:30	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 13:30	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 13:30	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	2.83	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100020**
Sample Designation **CO-GW-MW-47D**

Matrix: Groundwater
Date Collected: 4/5/2010 16:17
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 13:41	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	73	1		1	DEP-SURR-	04/15/10 13:41	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 13:41	04/12/10 16:30
a-BHC	8081	ug/L	0.023 U	10	0.023	0.092	319-84-6	04/18/10 14:04	04/12/10 16:30
b-BHC	8081	ug/L	1.2	10	0.03	0.12	319-85-7	04/18/10 14:04	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 13:41	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 13:41	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 13:41	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 13:41	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 13:41	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 13:41	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 13:41	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 13:41	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 13:41	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 13:41	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 13:41	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 13:41	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 13:41	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 13:41	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 13:41	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 13:41	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 13:41	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 13:41	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 13:41	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	340	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100021**
Sample Designation **CO-GW-MW-48D**

Matrix: Groundwater
Date Collected: 4/5/2010 16:44
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 14:24	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	78	1		1	DEP-SURR-	04/15/10 14:24	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 14:24	04/12/10 16:30
a-BHC	8081	ug/L	0.012	1	0.0023	0.0092	319-84-6	04/15/10 14:24	04/12/10 16:30
b-BHC	8081	ug/L	0.27	1	0.003	0.012	319-85-7	04/15/10 14:24	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 14:24	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 14:24	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 14:24	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 14:24	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 14:24	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 14:24	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 14:24	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 14:24	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 14:24	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 14:24	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 14:24	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 14:24	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 14:24	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 14:24	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 14:24	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 14:24	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 14:24	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 14:24	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 14:24	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	3.81	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100022**
Sample Designation **CO-GW-MW-23M**

Matrix: Groundwater
Date Collected: 4/6/2010 10:05
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 14:34	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	66	1		1	DEP-SURR-	04/15/10 14:34	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 14:34	04/12/10 16:30
a-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-84-6	04/15/10 14:34	04/12/10 16:30
b-BHC	8081	ug/L	0.018	1	0.003	0.012	319-85-7	04/15/10 14:34	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 14:34	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 14:34	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 14:34	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 14:34	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 14:34	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 14:34	04/12/10 16:30
Dieldrin	8081	ug/L	0.0025 I	1	0.0014	0.0056	60-57-1	04/15/10 14:34	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 14:34	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 14:34	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 14:34	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 14:34	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 14:34	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 14:34	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 14:34	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 14:34	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 14:34	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 14:34	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 14:34	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 14:34	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	2.91	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100023**
Sample Designation **CO-GW-MW-15S**

Matrix: Groundwater
Date Collected: 4/6/2010 10:40
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 14:45	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	113	1		1	DEP-SURR-	04/15/10 14:45	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 14:45	04/12/10 16:30
a-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-84-6	04/15/10 14:45	04/12/10 16:30
b-BHC	8081	ug/L	0.003 U	1	0.003	0.012	319-85-7	04/15/10 14:45	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 14:45	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 14:45	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 14:45	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 14:45	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 14:45	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 14:45	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 14:45	04/12/10 16:30
Endosulfan I	8081	ug/L	0.099	1	0.0019	0.0076	959-98-8	04/15/10 14:45	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 14:45	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 14:45	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 14:45	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 14:45	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 14:45	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 14:45	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 14:45	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 14:45	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 14:45	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 14:45	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 14:45	04/12/10 16:30

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100024**
Sample Designation **CO-GW-MW-115S**

Matrix: Groundwater
Date Collected: 4/6/2010 10:40
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 14:56	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	128	1		1	DEP-SURR-	04/15/10 14:56	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 14:56	04/12/10 16:30
a-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-84-6	04/15/10 14:56	04/12/10 16:30
b-BHC	8081	ug/L	0.003 U	1	0.003	0.012	319-85-7	04/15/10 14:56	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 14:56	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 14:56	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 14:56	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 14:56	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 14:56	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 14:56	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 14:56	04/12/10 16:30
Endosulfan I	8081	ug/L	0.10	1	0.0019	0.0076	959-98-8	04/15/10 14:56	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 14:56	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 14:56	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 14:56	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 14:56	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 14:56	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 14:56	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 14:56	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 14:56	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 14:56	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 14:56	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 14:56	04/12/10 16:30

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100025**
Sample Designation **CO-GW-MW-32D**

Matrix: Groundwater
Date Collected: 4/6/2010 11:02
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 15:11	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	47	1		1	DEP-SURR-	04/15/10 15:11	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 15:11	04/12/10 16:30
a-BHC	8081	ug/L	0.34	1	0.0023	0.0092	319-84-6	04/15/10 15:11	04/12/10 16:30
b-BHC	8081	ug/L	0.70	1	0.003	0.012	319-85-7	04/15/10 15:11	04/12/10 16:30
d-BHC	8081	ug/L	0.82	1	0.0023	0.0092	319-86-8	04/15/10 15:11	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 15:11	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 15:11	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 15:11	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 15:11	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 15:11	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 15:11	04/12/10 16:30
Endosulfan I	8081	ug/L	0.10	1	0.0019	0.0076	959-98-8	04/15/10 15:11	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 15:11	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 15:11	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 15:11	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 15:11	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 15:11	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 15:11	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 15:11	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 15:11	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 15:11	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 15:11	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 15:11	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	13.9	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100026**
Sample Designation **CO-GW-MW-30D**

Matrix: Groundwater
Date Collected: 4/6/2010 11:55
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep-
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 15:22	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	38	1		1	DEP-SURR-	04/15/10 15:22	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 15:22	04/12/10 16:30
a-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-84-6	04/15/10 15:22	04/12/10 16:30
b-BHC	8081	ug/L	0.13	1	0.003	0.012	319-85-7	04/15/10 15:22	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 15:22	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 15:22	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 15:22	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 15:22	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 15:22	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 15:22	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 15:22	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 15:22	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 15:22	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 15:22	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 15:22	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 15:22	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 15:22	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 15:22	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 15:22	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 15:22	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 15:22	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 15:22	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 15:22	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	1.84	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100027**
Sample Designation **CO-GW-MW-41D**

Matrix: Groundwater
Date Collected: 4/6/2010 12:33
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 15:33	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	44	1		1	DEP-SURR-	04/15/10 15:33	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 15:33	04/12/10 16:30
a-BHC	8081	ug/L	0.0061 I	1	0.0023	0.0092	319-84-6	04/15/10 15:33	04/12/10 16:30
b-BHC	8081	ug/L	0.013	1	0.003	0.012	319-85-7	04/15/10 15:33	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 15:33	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 15:33	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 15:33	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 15:33	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 15:33	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 15:33	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 15:33	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 15:33	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 15:33	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 15:33	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 15:33	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 15:33	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 15:33	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 15:33	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 15:33	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 15:33	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 15:33	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 15:33	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 15:33	04/12/10 16:30

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100028**
Sample Designation **CO-GW-MW-44S**

Matrix: Groundwater
Date Collected: 4/6/2010 13:43
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 15:43	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	41	1		1	DEP-SURR-	04/15/10 15:43	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 15:43	04/12/10 16:30
a-BHC	8081	ug/L	0.18	1	0.0023	0.0092	319-84-6	04/15/10 15:43	04/12/10 16:30
b-BHC	8081	ug/L	0.29	1	0.003	0.012	319-85-7	04/15/10 15:43	04/12/10 16:30
d-BHC	8081	ug/L	0.21	1	0.0023	0.0092	319-86-8	04/15/10 15:43	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 15:43	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 15:43	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 15:43	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 15:43	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 15:43	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 15:43	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 15:43	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 15:43	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 15:43	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 15:43	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 15:43	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 15:43	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 15:43	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 15:43	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 15:43	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 15:43	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 15:43	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 15:43	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	5.82	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100029**
Sample Designation **CO-GW-MW-44D**

Matrix: Groundwater
Date Collected: 4/6/2010 14:21
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 15:54	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	42	1		1	DEP-SURR-	04/15/10 15:54	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 15:54	04/12/10 16:30
a-BHC	8081	ug/L	0.0067 I	1	0.0023	0.0092	319-84-6	04/15/10 15:54	04/12/10 16:30
b-BHC	8081	ug/L	0.26	1	0.003	0.012	319-85-7	04/15/10 15:54	04/12/10 16:30
d-BHC	8081	ug/L	0.047	1	0.0023	0.0092	319-86-8	04/15/10 15:54	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 15:54	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 15:54	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 15:54	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 15:54	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 15:54	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 15:54	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 15:54	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 15:54	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 15:54	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 15:54	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 15:54	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 15:54	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 15:54	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 15:54	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 15:54	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 15:54	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 15:54	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 15:54	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	2.86	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100030**
Sample Designation **CO-GW-MW-45S**

Matrix: Groundwater
Date Collected: 4/6/2010 14:49
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 16:05	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	44	1		1	DEP-SURR-	04/15/10 16:05	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 16:05	04/12/10 16:30
a-BHC	8081	ug/L	0.081	1	0.0023	0.0092	319-84-6	04/15/10 16:05	04/12/10 16:30
b-BHC	8081	ug/L	1.6	10	0.03	0.12	319-85-7	04/18/10 14:28	04/12/10 16:30
d-BHC	8081	ug/L	0.027	1	0.0023	0.0092	319-86-8	04/15/10 16:05	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 16:05	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 16:05	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 16:05	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 16:05	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 16:05	04/12/10 16:30
Dieldrin	8081	ug/L	0.016	1	0.0014	0.0056	60-57-1	04/15/10 16:05	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 16:05	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 16:05	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 16:05	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 16:05	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 16:05	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 16:05	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 16:05	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 16:05	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 16:05	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 16:05	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 16:05	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 16:05	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	10.4	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100031**
Sample Designation **CO-GW-MW-45D**

Matrix: Groundwater
Date Collected: 4/6/2010 15:23
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 16:48	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	38	1		1	DEP-SURR-	04/15/10 16:48	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 16:48	04/12/10 16:30
a-BHC	8081	ug/L	0.0031 I	1	0.0023	0.0092	319-84-6	04/15/10 16:48	04/12/10 16:30
b-BHC	8081	ug/L	0.031	1	0.003	0.012	319-85-7	04/15/10 16:48	04/12/10 16:30
d-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-86-8	04/15/10 16:48	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 16:48	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 16:48	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 16:48	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 16:48	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 16:48	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 16:48	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 16:48	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 16:48	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 16:48	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 16:48	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 16:48	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 16:48	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 16:48	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 16:48	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 16:48	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 16:48	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 16:48	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 16:48	04/12/10 16:30
Total Organic Carbon									
Date Analyzed			4/11/10 S7	1				04/11/10 13:47	
Total Organic Carbon	SM5310B	mg/L	3.84	1	0.27	1.1		04/11/10 13:47	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100032**
Sample Designation **CO-GW-MW-16S**

Matrix: Groundwater
Date Collected: 4/7/2010 13:53
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 16:58	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	61	1		1	DEP-SURR-	04/15/10 16:58	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 16:58	04/12/10 16:30
a-BHC	8081	ug/L	0.019	1	0.0023	0.0092	319-84-6	04/15/10 16:58	04/12/10 16:30
b-BHC	8081	ug/L	0.20	1	0.003	0.012	319-85-7	04/15/10 16:58	04/12/10 16:30
d-BHC	8081	ug/L	0.032	1	0.0023	0.0092	319-86-8	04/15/10 16:58	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 16:58	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 16:58	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 16:58	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 16:58	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 16:58	04/12/10 16:30
Dieldrin	8081	ug/L	0.043	1	0.0014	0.0056	60-57-1	04/15/10 16:58	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 16:58	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 16:58	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 16:58	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 16:58	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 16:58	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 16:58	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 16:58	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 16:58	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 16:58	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 16:58	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 16:58	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 16:58	04/12/10 16:30

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100033**
Sample Designation **CO-GW-MW-16D**

Matrix: Groundwater
Date Collected: 4/7/2010 14:14
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 17:09	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	73	1		1	DEP-SURR-	04/15/10 17:09	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 17:09	04/12/10 16:30
a-BHC	8081	ug/L	2.4	10	0.023	0.092	319-84-6	04/18/10 14:53	04/12/10 16:30
b-BHC	8081	ug/L	11	10	0.003	0.012	319-85-7	04/18/10 14:53	04/12/10 16:30
d-BHC	8081	ug/L	2.1	10	0.023	0.092	319-86-8	04/18/10 14:53	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 17:09	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 17:09	04/12/10 16:30
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/15/10 17:09	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 17:09	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 17:09	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 17:09	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 17:09	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 17:09	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 17:09	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 17:09	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 17:09	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 17:09	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 17:09	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 17:09	04/12/10 16:30
Lindane	8081	ug/L	0.64	1	0.0024	0.0096	58-89-9	04/15/10 17:09	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 17:09	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 17:09	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 17:09	04/12/10 16:30

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100034**
Sample Designation **CO-GW-MW-36S**

Matrix: Groundwater
Date Collected: 4/7/2010 15:01
Date Received: 4/8/2010 08:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/12/10						04/12/10 16:30
Date Analyzed			4/15/10	1				04/15/10 17:20	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	107	1		1	DEP-SURR-	04/15/10 17:20	04/12/10 16:30
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/15/10 17:20	04/12/10 16:30
a-BHC	8081	ug/L	0.33	1	0.0023	0.0092	319-84-6	04/15/10 17:20	04/12/10 16:30
b-BHC	8081	ug/L	0.79	1	0.003	0.012	319-85-7	04/15/10 17:20	04/12/10 16:30
d-BHC	8081	ug/L	0.79	1	0.0023	0.0092	319-86-8	04/15/10 17:20	04/12/10 16:30
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/15/10 17:20	04/12/10 16:30
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/15/10 17:20	04/12/10 16:30
4,4'-DDD	8081	ug/L	2.0	10	0.016	0.064	72-54-8	04/18/10 15:17	04/12/10 16:30
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/15/10 17:20	04/12/10 16:30
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/15/10 17:20	04/12/10 16:30
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/15/10 17:20	04/12/10 16:30
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/15/10 17:20	04/12/10 16:30
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/15/10 17:20	04/12/10 16:30
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/15/10 17:20	04/12/10 16:30
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/15/10 17:20	04/12/10 16:30
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/15/10 17:20	04/12/10 16:30
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/15/10 17:20	04/12/10 16:30
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/15/10 17:20	04/12/10 16:30
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/15/10 17:20	04/12/10 16:30
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/15/10 17:20	04/12/10 16:30
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/15/10 17:20	04/12/10 16:30
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/15/10 17:20	04/12/10 16:30
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/15/10 17:20	04/12/10 16:30

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100079**
Sample Designation **CO-GW-MW-1D**

Matrix: Groundwater
Date Collected: 4/8/2010 09:07
Date Received: 4/9/2010 10:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/14/10						04/14/10 12:15
Date Analyzed			4/18/10	1				04/18/10 19:20	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	63	1		1	DEP-SURR-	04/18/10 19:20	04/14/10 12:15
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/18/10 19:20	04/14/10 12:15
a-BHC	8081	ug/L	1.9	20	0.046	0.18	319-84-6	04/23/10 14:41	04/14/10 12:15
b-BHC	8081	ug/L	1.6	20	0.003	0.012	319-85-7	04/23/10 14:41	04/14/10 12:15
d-BHC	8081	ug/L	5.2	20	0.046	0.18	319-86-8	04/23/10 14:41	04/14/10 12:15
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/18/10 19:20	04/14/10 12:15
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/18/10 19:20	04/14/10 12:15
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/18/10 19:20	04/14/10 12:15
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/18/10 19:20	04/14/10 12:15
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/18/10 19:20	04/14/10 12:15
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/18/10 19:20	04/14/10 12:15
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/18/10 19:20	04/14/10 12:15
Endosulfan II	8081	ug/L	0.51	20	0.0018	0.0072	33213-65-9	04/23/10 14:41	04/14/10 12:15
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/18/10 19:20	04/14/10 12:15
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/18/10 19:20	04/14/10 12:15
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/18/10 19:20	04/14/10 12:15
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/18/10 19:20	04/14/10 12:15
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/18/10 19:20	04/14/10 12:15
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/18/10 19:20	04/14/10 12:15
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/18/10 19:20	04/14/10 12:15
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/18/10 19:20	04/14/10 12:15
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/18/10 19:20	04/14/10 12:15
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/18/10 19:20	04/14/10 12:15

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100080**
Sample Designation **CO-GW-MW-101D**

Matrix: Groundwater
Date Collected: 4/8/2010 09:07
Date Received: 4/9/2010 10:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/14/10						04/14/10 12:15
Date Analyzed			4/18/10	1				04/18/10 19:45	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	61	1		1	DEP-SURR-	04/18/10 19:45	04/14/10 12:15
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/18/10 19:45	04/14/10 12:15
a-BHC	8081	ug/L	1.7	1	0.0023	0.0092	319-84-6	04/23/10 14:52	04/14/10 12:15
b-BHC	8081	ug/L	1.5	1	0.003	0.012	319-85-7	04/23/10 14:52	04/14/10 12:15
d-BHC	8081	ug/L	4.8	1	0.0023	0.0092	319-86-8	04/23/10 14:52	04/14/10 12:15
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/18/10 19:45	04/14/10 12:15
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/18/10 19:45	04/14/10 12:15
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/18/10 19:45	04/14/10 12:15
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/18/10 19:45	04/14/10 12:15
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/18/10 19:45	04/14/10 12:15
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/18/10 19:45	04/14/10 12:15
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/18/10 19:45	04/14/10 12:15
Endosulfan II	8081	ug/L	0.46	1	0.0018	0.0072	33213-65-9	04/23/10 14:52	04/14/10 12:15
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/18/10 19:45	04/14/10 12:15
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/18/10 19:45	04/14/10 12:15
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/18/10 19:45	04/14/10 12:15
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/18/10 19:45	04/14/10 12:15
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/18/10 19:45	04/14/10 12:15
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/18/10 19:45	04/14/10 12:15
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/18/10 19:45	04/14/10 12:15
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/18/10 19:45	04/14/10 12:15
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/18/10 19:45	04/14/10 12:15
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/18/10 19:45	04/14/10 12:15

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100081**
Sample Designation **CO-GW-MW-36D**

Matrix: Groundwater
Date Collected: 4/8/2010 09:41
Date Received: 4/9/2010 10:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/14/10						04/14/10 12:15
Date Analyzed			4/18/10	1				04/18/10 20:09	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	49	1		1	DEP-SURR-	04/18/10 20:09	04/14/10 12:15
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/18/10 20:09	04/14/10 12:15
a-BHC	8081	ug/L	1.2	20	0.0023	0.0092	319-84-6	04/23/10 15:03	04/14/10 12:15
b-BHC	8081	ug/L	1.6	20	0.003	0.012	319-85-7	04/23/10 15:03	04/14/10 12:15
d-BHC	8081	ug/L	4.0	20	0.0023	0.0092	319-86-8	04/23/10 15:03	04/14/10 12:15
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/18/10 20:09	04/14/10 12:15
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/18/10 20:09	04/14/10 12:15
4,4'-DDD	8081	ug/L	0.17	20	0.0016	0.0064	72-54-8	04/23/10 15:03	04/14/10 12:15
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/18/10 20:09	04/14/10 12:15
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/18/10 20:09	04/14/10 12:15
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/18/10 20:09	04/14/10 12:15
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/18/10 20:09	04/14/10 12:15
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/18/10 20:09	04/14/10 12:15
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/18/10 20:09	04/14/10 12:15
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/18/10 20:09	04/14/10 12:15
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/18/10 20:09	04/14/10 12:15
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/18/10 20:09	04/14/10 12:15
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/18/10 20:09	04/14/10 12:15
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/18/10 20:09	04/14/10 12:15
Lindane	8081	ug/L	0.55	20	0.0024	0.0096	58-89-9	04/23/10 15:03	04/14/10 12:15
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/18/10 20:09	04/14/10 12:15
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/18/10 20:09	04/14/10 12:15
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/18/10 20:09	04/14/10 12:15

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100082**
Sample Designation **CO-GW-MW-50S**

Matrix: Groundwater
Date Collected: 4/8/2010 12:02
Date Received: 4/9/2010 10:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/14/10						04/14/10 12:15
Date Analyzed			4/18/10	1				04/18/10 20:33	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	91	1		1	DEP-SURR-	04/18/10 20:33	04/14/10 12:15
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/18/10 20:33	04/14/10 12:15
a-BHC	8081	ug/L	7.0	50	0.12	0.46	319-84-6	04/23/10 15:13	04/14/10 12:15
b-BHC	8081	ug/L	3.8	50	0.15	0.6	319-85-7	04/23/10 15:13	04/14/10 12:15
d-BHC	8081	ug/L	48	50	0.12	0.46	319-86-8	04/23/10 15:13	04/14/10 12:15
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/18/10 20:33	04/14/10 12:15
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/18/10 20:33	04/14/10 12:15
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/18/10 20:33	04/14/10 12:15
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/18/10 20:33	04/14/10 12:15
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/18/10 20:33	04/14/10 12:15
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/18/10 20:33	04/14/10 12:15
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/18/10 20:33	04/14/10 12:15
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/18/10 20:33	04/14/10 12:15
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/18/10 20:33	04/14/10 12:15
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/18/10 20:33	04/14/10 12:15
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/18/10 20:33	04/14/10 12:15
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/18/10 20:33	04/14/10 12:15
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/18/10 20:33	04/14/10 12:15
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/18/10 20:33	04/14/10 12:15
Lindane	8081	ug/L	11	50	0.12	0.48	58-89-9	04/23/10 15:13	04/14/10 12:15
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/18/10 20:33	04/14/10 12:15
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/18/10 20:33	04/14/10 12:15
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/18/10 20:33	04/14/10 12:15
Total Organic Carbon									
Date Analyzed			4/19/10 S7	1				04/19/10 17:18	
Total Organic Carbon	SM5310B	mg/L	24.4	1	0.27	1.1		04/19/10 17:18	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100083**
Sample Designation **CO-GW-MW-50D**

Matrix: Groundwater
Date Collected: 4/8/2010 12:49
Date Received: 4/9/2010 10:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/14/10						04/14/10 12:15
Date Analyzed			4/18/10	1				04/18/10 20:58	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	37	1		1	DEP-SURR-	04/18/10 20:58	04/14/10 12:15
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/18/10 20:58	04/14/10 12:15
a-BHC	8081	ug/L	4.2	50	0.12	0.46	319-84-6	04/23/10 15:24	04/14/10 12:15
b-BHC	8081	ug/L	3.2	50	0.15	0.6	319-85-7	04/23/10 15:24	04/14/10 12:15
d-BHC	8081	ug/L	5.4	50	0.12	0.46	319-86-8	04/23/10 15:24	04/14/10 12:15
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/18/10 20:58	04/14/10 12:15
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/18/10 20:58	04/14/10 12:15
4,4'-DDD	8081	ug/L	2.7	50	0.0016	0.0064	72-54-8	04/23/10 15:24	04/14/10 12:15
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/18/10 20:58	04/14/10 12:15
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/18/10 20:58	04/14/10 12:15
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/18/10 20:58	04/14/10 12:15
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/18/10 20:58	04/14/10 12:15
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/18/10 20:58	04/14/10 12:15
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/18/10 20:58	04/14/10 12:15
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/18/10 20:58	04/14/10 12:15
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/18/10 20:58	04/14/10 12:15
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/18/10 20:58	04/14/10 12:15
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/18/10 20:58	04/14/10 12:15
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/18/10 20:58	04/14/10 12:15
Lindane	8081	ug/L	0.12 U	50	0.12	0.48	58-89-9	04/23/10 15:24	04/14/10 12:15
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/18/10 20:58	04/14/10 12:15
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/18/10 20:58	04/14/10 12:15
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/18/10 20:58	04/14/10 12:15
Total Organic Carbon									
Date Analyzed			4/19/10 S7	1				04/19/10 17:18	
Total Organic Carbon	SM5310B	mg/L	57	1	0.27	1.1		04/19/10 17:18	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100084**
Sample Designation **CO-GW-EQBK-1**

Matrix: Water
Date Collected: 4/8/2010 13:00
Date Received: 4/9/2010 10:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Organochlorine Pesticides by EPA Method 8081									
Date Extracted	3510c		04/14/10						04/14/10 12:15
Date Analyzed			4/23/10	1				04/23/10 15:35	
2,4,5,6-Tetrachloro-m-xylene (10-139)	8081	%	60	1		1	DEP-SURR-	04/23/10 15:35	04/14/10 12:15
Aldrin	8081	ug/L	0.002 U	1	0.002	0.008	309-00-2	04/23/10 15:35	04/14/10 12:15
a-BHC	8081	ug/L	0.0023 U	1	0.0023	0.0092	319-84-6	04/23/10 15:35	04/14/10 12:15
b-BHC	8081	ug/L	0.013	1	0.003	0.012	319-85-7	04/23/10 15:35	04/14/10 12:15
d-BHC	8081	ug/L	0.025	1	0.0023	0.0092	319-86-8	04/23/10 15:35	04/14/10 12:15
a-Chlordane	8081	ug/L	0.0019 U	1	0.0019	0.0076	5103-71-9	04/23/10 15:35	04/14/10 12:15
g-Chlordane	8081	ug/L	0.0021 U	1	0.0021	0.0084	5103-74-2	04/23/10 15:35	04/14/10 12:15
4,4'-DDD	8081	ug/L	0.0016 U	1	0.0016	0.0064	72-54-8	04/23/10 15:35	04/14/10 12:15
4,4'-DDE	8081	ug/L	0.0017 U	1	0.0017	0.0068	72-55-9	04/23/10 15:35	04/14/10 12:15
4,4'-DDT	8081	ug/L	0.002 U	1	0.002	0.008	50-29-3	04/23/10 15:35	04/14/10 12:15
Dieldrin	8081	ug/L	0.0014 U	1	0.0014	0.0056	60-57-1	04/23/10 15:35	04/14/10 12:15
Endosulfan I	8081	ug/L	0.0019 U	1	0.0019	0.0076	959-98-8	04/23/10 15:35	04/14/10 12:15
Endosulfan II	8081	ug/L	0.0018 U	1	0.0018	0.0072	33213-65-9	04/23/10 15:35	04/14/10 12:15
Endosulfan sulfate	8081	ug/L	0.0027 U	1	0.0027	0.011	1031-07-8	04/23/10 15:35	04/14/10 12:15
Endrin	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-20-8	04/23/10 15:35	04/14/10 12:15
Endrin aldehyde	8081	ug/L	0.0019 U	1	0.0019	0.0076	7421-93-4	04/23/10 15:35	04/14/10 12:15
Endrin ketone	8081	ug/L	0.0016 U	1	0.0016	0.0064	53494-70-5	04/23/10 15:35	04/14/10 12:15
Heptachlor	8081	ug/L	0.0024 U	1	0.0024	0.0096	76-44-8	04/23/10 15:35	04/14/10 12:15
Heptachlor epoxide	8081	ug/L	0.0022 U	1	0.0022	0.0088	1024-57-3	04/23/10 15:35	04/14/10 12:15
Lindane	8081	ug/L	0.0024 U	1	0.0024	0.0096	58-89-9	04/23/10 15:35	04/14/10 12:15
Methoxychlor	8081	ug/L	0.0018 U	1	0.0018	0.0072	72-43-5	04/23/10 15:35	04/14/10 12:15
Mirex	8081	ug/L	0.015 U	1	0.015	0.06	2385-85-5	04/23/10 15:35	04/14/10 12:15
Toxaphene	8081	ug/L	0.044 U	1	0.044	0.2	8001-35-2	04/23/10 15:35	04/14/10 12:15

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100085**
Sample Designation **CO-SO-COMP-1**

Matrix: Soil
Date Collected: 4/8/2010 11:00
Date Received: 4/9/2010 10:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP Extraction									
Date Leached - TCLP	1311		04/12/10	1				04/12/10	04/12/10

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

SunLabs Sample Number **100086**
Sample Designation **TCLP Leachate/100085 (CO-SO-COMP-1)**

Matrix TCLP Leachate
Date Collected
Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP-Pesticides by Method 8081									
Date Extracted	3510		04/14/10						04/14/10 15:30
Date Analyzed	8081		4/19/10	1				04/19/10 00:12	
Surrogate	8081	%	54	1				04/19/10 00:12	04/14/10 15:30
Chlordane	8081	mg/L	0.11	10	0.0001	0.03	57-74-9	04/23/10 18:55	04/14/10 15:30
Endrin	8081	mg/L	0.00009 U	1	0.00009	0.02	72-20-8	04/19/10 00:12	04/14/10 15:30
Heptachlor	8081	mg/L	0.00012 U	1	0.00012	0.008	76-44-8	04/19/10 00:12	04/14/10 15:30
Heptachlor epoxide	8081	mg/L	0.00011 U	1	0.00011	0.008	1024-57-3	04/19/10 00:12	04/14/10 15:30
Lindane	8081	mg/L	0.00012 U	1	0.00012	0.4	58-89-9	04/19/10 00:12	04/14/10 15:30
Methoxychlor	8081	mg/L	0.00009 U	1	0.00009	0.1	72-43-5	04/19/10 00:12	04/14/10 15:30
Toxaphene	8081	mg/L	0.002 U	1	0.002	0.03	8001-35-2	04/19/10 00:12	04/14/10 15:30

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

Footnotes	
*	SunLabs is not currently NELAC certified for this analyte.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	The reported value failed to meet the established quality control criteria for either precision or accuracy(see cover letter for explanation)
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Sample not analyzed at client's request.
Q	Sample held beyond the accepted holding time.
RL	RL(reporting limit) = PQL(practical quantitation limit).
RPD	Relative Percent Difference
S7	This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167.
U	Compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.

Quality Control Data

Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

Batch No: D3834

Test: Organochlorine Pesticides by EPA Method 8081

TestCode: 8081-w

Associated Samples: 100017, 100018, 100019, 100020, 100021, 100022, 100023, 100024, 100025, 100026, 100027, 100028, 100029, 100030, 100031, 100032, 100033, 100034

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- MS	Dup RPD	Qualifiers
Parent Sample Number									*99932*	*99932*					
2,4,5,6-Tetrachloro-m-xylene (10-139)	50 %														
Aldrin	0.002 U ug/L	100	59				38-93	100	60	61	2	163	0-146		
a-BHC	0.0023 U ug/L	100	38				21-112	100	45	47	4	14	0-165		
b-BHC	0.0030 U ug/L	100	55				41-103	100	66	62	6	17	0-159		
d-BHC	0.0023 U ug/L														
a-Chlordane	0.0019 U ug/L	100	58				43-108	100	61	58	5	156	9-130		
g-Chlordane	0.0021 U ug/L	100	73				51-117	100	91	78	15	16	2-143		
4,4'-DDD	0.0016 U ug/L														
4,4'-DDE	0.0017 U ug/L														
4,4'-DDT	0.002 U ug/L	100	68				44-118	100	82	78	5	21	7-161		
Dieldrin	0.0014 U ug/L	100	65				51-101	100	77	79	3	22	30-137		
Endosulfan I	0.0019 U ug/L	100	62				50-93	100	70	71	1	27	10-137		
Endosulfan II	0.0018 U ug/L														
Endosulfan sulfate	0.0027 U ug/L	100	39				21-130	100	67	64	5	76	15-125		
Endrin	0.0018 U ug/L	100	64				48-130	100	76	70	8	41	33-157		
Endrin aldehyde	0.0019 U ug/L	100	71				37-127	100	85	85	0	73	5-141		
Endrin ketone	0.0016 U ug/L														
Heptachlor	0.0024 U ug/L	100	55				28-131	100	62	60	3	157	0-172		
Heptachlor epoxide	0.0022 U ug/L	100	63				51-100	100	71	68	4	27	17-131		
Lindane	0.0024 U ug/L														
Methoxychlor	0.0018 U ug/L	100	69				34-153	100	111	112	1	64	61-148		
Mirex	0.015 U ug/L	100	59				39-87	100	75	73	3	53	47-109		
Toxaphene	0.044 U ug/L														

Batch No: D3847

Test: TCLP-Pesticides by Method 8081

TestCode: TCLP-Pest

Associated Samples: 100086

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- MS	Dup RPD	Qualifiers
Parent Sample Number									*100086*						
Surrogate	61 %														
Chlordane	0.0001 U mg/L														
Endrin	0.00009 U mg/L	200	97				46-130	200	139				0-172		
Heptachlor	0.00012 U mg/L	200	73				33-127	200	137				0-160		
Heptachlor epoxide	0.00011 U mg/L	200	79				60-140	200	123						
Lindane	0.00012 U mg/L	200	83				42-124	200	89				19-139		
Methoxychlor	0.00009 U mg/L	200	93				60-140	200	110						
Toxaphene	0.002 U mg/L														

Batch No: D3848

Test: Organochlorine Pesticides by EPA Method 8081

TestCode: 8081-w

Associated Samples: 100079, 100080, 100081, 100082, 100083, 100084

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- MS	Dup RPD	Qualifiers
Parent Sample Number									*100081*	*100081*					
2,4,5,6-Tetrachloro-m-xylene (10-139)	51 %														
Aldrin	0.002 U ug/L	100	58	57	2	20	38-93	100	47	0	200 *	163	0-146		
a-BHC	0.0023 U ug/L	100	45	43	5	23	21-112	100	160	160	0	14	0-165		
b-BHC	0.0030 U ug/L	100	59	58	2	18	41-103	100	112	138	21 *	17	0-159		
d-BHC	0.0023 U ug/L														

Quality Control Data

Project Number	TASK Environmental , Inc.
100408.07	Project Description: Chevron Orlando

April 26, 2010

Batch No: **D3848**

Test: Organochlorine Pesticides by EPA Method 8081

TestCode: 8081-w

Associated Samples: 100079, 100080, 100081, 100082, 100083, 100084

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- MS	Dup RPD	Qualifiers
Parent Sample Number									*100081*	*100081*					
a-Chlordane	0.0019 U ug/L	100	68	73	7	20	43-108	100	133 *	0 *	200 *	156	9-130		
g-Chlordane	0.0021 U ug/L	100	75	68	10	18	51-117	100	0 *	0 *	NA	16	2-143		
4,4'-DDD	0.0016 U ug/L														
4,4'-DDE	0.0017 U ug/L														
4,4'-DDT	0.002 U ug/L	100	64	63	2	18	44-118	100	144	195 *	30 *	21	7-161		
Dieldrin	0.0014 U ug/L	100	68	67	1	17	51-101	100	101	134	28 *	22	30-137		
Endosulfan I	0.0019 U ug/L	100	66	64	3	18	50-93	100	110	160 *	37 *	27	10-137		
Endosulfan II	0.0018 U ug/L														
Endosulfan sulfate	0.0027 U ug/L	100	42	42	0	12	21-130	100	14 *	43	102 *	76	15-125		
Endrin	0.0018 U ug/L	100	70	69	1	17	48-130	100	98	134	31	41	33-157		
Endrin aldehyde	0.0019 U ug/L	100	90	90	0	24	37-127	100	73	26	95 *	73	5-141		
Endrin ketone	0.0016 U ug/L														
Heptachlor	0.0024 U ug/L	100	60	58	3	17	28-131	100	24	0	200 *	157	0-172		
Heptachlor epoxide	0.0022 U ug/L	100	66	64	3	17	51-100	100	23	33	36 *	27	17-131		
Lindane	0.0024 U ug/L														
Methoxychlor	0.0018 U ug/L	100	82	82	0	23	34-153	100	83	113	31	64	61-148		
Mirex	0.015 U ug/L	100	65	64	2	23	39-87	100	70	93	28	53	47-109		
Toxaphene	0.044 U ug/L														

* Indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

MI	*Matrix Interference*
U	*Compound was analyzed for but not detected.*

BENCHMARK
EnviroAnalytical, Inc.

FDHRS Certification #E84167 and #84455
FDER Quality Assurance #870594G

Sunlabs Inc.
5460 Beaumont Center Blvd Suite 520
Tampa, Fl 33634

Attention: Lori Palmer

Project: Quality Control Data - **10040320**

Accuracy Data:

Parameter	ID		Date	QC Type	Sample Conc.	Sample + Spike Conc.	True Value	% Rec.
TOTAL ORGANIC CARBON			04/11/10	STD	25.50		25.00	102.02
TOTAL ORGANIC CARBON			04/11/10	STD	0.986		1.000	98.60
TOTAL ORGANIC CARBON			04/11/10	STD	51.28		50.00	102.57
TOTAL ORGANIC CARBON			04/11/10	STD	51.52		50.00	103.05
TOTAL ORGANIC CARBON			04/11/10	STD	25.12		25.00	100.48
TOTAL ORGANIC CARBON			04/11/10	STD	0.982		0.90	98.20
TOTAL ORGANIC CARBON	10040319	1	04/11/10	SPK	15.59	25.60	10.00	101.30
TOTAL ORGANIC CARBON	10040320	12	04/11/10	SPK	3.837	13.84	10.00	100.00

BENCHMARK
EnviroAnalytical, Inc.

FDHRS Certification #E84167
FDER Quality Assurance #870594G

Sunlabs Inc.
5460 Beaumont Center Blvd Suite 520
Tampa, Fl 33634

Attention: Lori Palmer

Project: Quality Control Data - 10040320

Precision Data:

Parameter	ID		Date	Sample A Conc.	Sample B Conc.	% RSD
TOTAL ORGANIC CARBON	10040319	1	04/11/10	15.59	15.47	0.53
TOTAL ORGANIC CARBON	10040320	12	04/11/10	3.837	3.837	0.00

sub Benchmark

SunLabs, Inc. Chain of Custody

№ 24416

10040320

Client Name: Sunlabs Inc
Contact: Lori Palmer
Address:
Phone / Fax: cm file
E-Mail :

SunLabs Project #

Project Name:
Project #: 10040056.07
PO #: 10-1199
Alt Bill To:

SunLabs Sample #	Sample Description	Sampled Date	Sampled Time	# of Bottles	Bottle Type	Preservative	Matrix	Analysis / Method Requested
1	100017	4/5	1421	1	P	H	SW	8
2	100018		1514					
3	100019		1532					
4	100020		1617					
5	100021		1644					
6	100022	4/6	1005					
7	100025		1102					
8	100026		1155					
9	100028		1343					
10	100029		1421					
11	100030		1449					
12	100031		1523					

Due Date Requested*:

☐ FDEP PreApproval site
☐ Cash rates

Remarks / Comments:

Length of Record Retention if other than 5 years:*

Sampler Signature / Date: Client

Printed Name / Affiliation: Client

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR DISPOSAL OF UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
		4-9-10	1115
Relinquished By:	Relinquished To:	Date:	Time:
Relinquished By:	Relinquished To:	Date:	Time:
Relinquished By:	Relinquished To:	Date:	Time:

Bottle Type Codes:

GV = Glass Vial
GVS = Low Level Volatile Kit
GA = Glass Amber
T = Tedlar Bag
P = Plastic
O = Other (Specify)
S = Soil Jar

Preservative Codes:

H = Hydrochloric Acid + Ice
S = Sulfuric Acid + Ice
I = Ice only
VS = MeOH, OFW, + Ice
N = Nitric Acid + Ice
T = Sodium thiosulfate + Ice
B = Sodium bisulfite + Ice
O = Other (Specify)

Matrix Codes:

A = Air
SO = Soil
DW = Drinking Water
SOL = Solid
GW = Ground Water
SW = Surface Water
SE = Sediment
W = Water (Blanks)
O = Other (Specify)

Internal Use Only

Sample Condition Upon Receipt:

Custody Seals present?	Y / N / NA
Custody Seals intact?	Y / N / NA
Shipping Bills attached?	Y / N / NA
Sample containers intact?	Y / N / NA
Samples within holding times?	Y / N / NA
Sufficient volume for all analyses?	Y / N / NA
Are vials head-space free?	Y / N / NA
Proper containers and preservatives?	Y / N / NA

Internal Use Only

Temp upon receipt: 4 °C

Received on Ice? Y / N / NA

5 of 5

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

Rev 12/09

* See General Terms and Conditions on Reverse

BENCHMARK
EnviroAnalytical, Inc.

FDHRS Certification #E84167 and #84455
FDER Quality Assurance #870594G

Sunlabs Inc.
5460 Beaumont Center Blvd Suite 520
Tampa, Fl 33634

Attention: Lori Palmer

Project: Quality Control Data - **10040402**

Accuracy Data:

Parameter	ID		Date	QC Type	Sample Conc.	Sample + Spike Conc.	True Value	% Rec.
TOTAL ORGANIC CARBON			04/19/10	STD	51.72		50.00	103.40
TOTAL ORGANIC CARBON			04/19/10	STD	51.08		50.00	102.20
TOTAL ORGANIC CARBON			04/19/10	STD	1.000		1.00	100.00
TOTAL ORGANIC CARBON			04/19/10	STD	25.21		25.00	100.80
TOTAL ORGANIC CARBON			04/19/10	STD	1.009		1.00	100.90
TOTAL ORGANIC CARBON			04/19/10	STD	25.32		25.00	101.30
TOTAL ORGANIC CARBON			04/19/10	STD	51.40		50.00	102.80
TOTAL ORGANIC CARBON	10040567	1	04/19/10	SPK	-0.009	10.12	10.00	101.30
TOTAL ORGANIC CARBON	10040402	1	04/19/10	SPK	24.39	33.25	10.00	88.80
TOTAL ORGANIC CARBON	10040402	2	04/19/10	SPK	57.06	65.38	10.00	81.00

BENCHMARK
EnviroAnalytical, Inc.

FDHRS Certification #E84167
FDER Quality Assurance #870594G

Sunlabs Inc.
5460 Beaumont Center Blvd Suite 520
Tampa, Fl 33634

Attention: Lori Palmer

Project: Quality Control Data - **10040402**

Precision Data:

Parameter	ID		Date	Sample A Conc.	Sample B Conc.	% RSD
TOTAL ORGANIC CARBON	10040402	1	04/19/10	24.39	24.36	0.07
TOTAL ORGANIC CARBON	10040402	2	04/19/10	57.06	57.29	0.28

Sub - Benchmark

SunLabs, Inc. Chain of Custody

№ 23756

Client Name: SunLabs, Inc.
Contact: Lori Palmer
Address:

Phone / Fax: on file
E-Mail :

SunLabs Project # 100408

Project Name:
Project #: 100408.07
PO #: 10-1232
Alt Bill To:

SunLabs Sample #	Sample Description	Sampled Date	Sampled Time	# of Bottles	Bottle Type	Preservative	Matrix	Analysis / Method Requested: TOC	
1	100082	4/8/10	1202	1	P	H	SW		
2	100083	4/8/10	1249	1	P	H	SW		

Due Date Requested*:

☐ FDEP PreApproval site
☐ Cash rates

Remarks / Comments:

Length of Record Retention if other than 5 years:* _____

Sampler Signature / Date: Client

Printed Name / Affiliation: Client

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR DISPOSAL OF UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
		4/12/10	1330
Relinquished By:	Relinquished To:	Date:	Time:
Relinquished By:	Relinquished To:	Date:	Time:
Relinquished By:	Relinquished To:	Date:	Time:

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit
GA = Glass Amber; T = Tedlar Bag
P = Plastic; O = Other (Specify)
S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice
I = Ice only; VS = MeOH, DFW, + Ice
N = Nitric Acid + Ice; T = Sodium thiosulfate + Ice
B = Sodium bisulfite + Ice; O = Other (Specify) _____

Matrix Codes:
A = Air; SO = Soil
DW = Drinking Water; SOL = Solid
GW = Ground Water; SW = Surface Water
SE = Sediment; W = Water (Blanks)
O = Other (Specify)

Internal Use Only

Sample Condition Upon Receipt:

Custody Seals present?	Y / N / NA
Custody Seals intact?	Y / N / NA
Shipping Bills attached?	Y / N / NA
Sample containers intact?	Y / N / NA
Samples within holding times?	Y / N / NA
Sufficient volume for all analyses?	Y / N / NA
Are vials head-space free?	Y / N / NA
Proper containers and preservatives?	Y / N / NA

Temp upon receipt: 2.0 °C

Received on Ice? (Y) / N / NA

6943

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

* See General Terms and Conditions on Reverse

SunLabs, Inc. Chain of Custody

Nº 23663

(1/2)

Client Name: TASK
Contact: Susan Tobin
Address: 2775 Lake Emma Rd
Mt Dora, FL
Phone / Fax: (352) 383-0717
E-Mail :

SunLabs Project # 100408.07

Project Name: Chevron Orlando
Project #: 60215
PO #:
Alt Bill To: Arcadis
Allen Just

SunLabs Sample #	Sample Description	Sampled Date	Sampled Time	# of Bottles	Bottle Type: GA	Preservative: I	Matrix: GW	Analysis / Method Requested: 8260	TAL
100017	CO-GW-MW-49-D	4-5-10	1421	2	1	1			
100018	CO-GW-MW-29-D	4-5-10	1514	2	1	1			
100019	CO-GW-MW-11-S	4-5-10	1532	4	3	1			
100020	CO-GW-MW-47 D	4-5-10	1617	2	1	1			
	~~CO-GW-MW-23M~~								
100021	CO-GW-MW-48 D	4-5-10	1644	2	1	1			
100022	CO-GW-MW-~~1155~~ 23M	4-6-10	1005	2	1	1			
100023	CO-GW-MW-15S	4-6-10	1040	1	1				
100024	CO-GW-MW-11S	4-6-10	1040	1	1				
100025	CO-GW-MW-32D	4-6-10	1102	2	1	1			
100026	CO-GW-MW-30D	4-6-10	1155	2	1	1			
100027	CO-GW-MW-41D	4-6-10	1233	1	1				
100028	CO-GW-MW-44S	4-6-10	1343	2	1	1			
100029	CO-GW-MW-44D	4-6-10	1421	2	1	1			

Due Date Requested*:

☐ FDEP PreApproval site
☐ Cash rates

Remarks / Comments:

Length of Record Retention if other than 5 years:* _____

Sampler Signature / Date: Ty Hawbin / 4-6-10

Printed Name / Affiliation: Ty Hawbin / TASK

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR DISPOSAL OF UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
[signature]	Ty Hawbin	4/5/10	
Ty Hawbin	[signature]	4-8-10	8:15
Relinquished By:	Relinquished To:	Date:	Time:
Relinquished By:	Relinquished To:	Date:	Time:

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit; GA = Glass Amber; T = Tedlar Bag; P = Plastic; O = Other (Specify); S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice; I = Ice only; VS = MeOH, OFW, + Ice; N = Nitric Acid + Ice; T = Sodium thiosulfate + ice; B = Sodium bisulfite + Ice; O = Other (Specify) _____

Matrix Codes:
A = Air; SO = Soil; DW = Drinking Water; SOL = Solid; GW = Ground Water; SW = Surface Water; SE = Sediment; W = Water (Blanks); O = Other (Specify)

Internal Use Only

Temp upon receipt: 2.9 °C

Received on Ice? (Y) / N / NA

Internal Use Only

Sample Condition Upon Receipt:

Custody Seals present?	Y / N / (NA)
Custody Seals Intact?	Y / N / (NA)
Shipping Bills attached?	Y / N / (NA)
Sample containers intact?	(Y) / N / NA
Samples within holding times?	(Y) / N / NA
Sufficient volume for all analyses?	(Y) / N / NA
Are vials head-space free?	Y / N / (NA)
Proper containers and preservatives?	(Y) / N / NA

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

* See General Terms and Conditions on Reverse

(2/2)

SunLabs, Inc. Chain of Custody

№ 23662

Client Name: TASK
Contact: Susan Tobey
Address: 27751 Lake Fern Rd
Mt Dora, FL
Phone / Fax: (352) 383-0717
E-Mail:

SunLabs Project # 100408.07

Project Name: Chevron Orlando
Project #: 60215
PO #:
Alt Bill To: Arcadis Allen Just

SunLabs Sample #	Sample Description	Sampled Date	Sampled Time	# of Bottles	Bottle Type	Preservative	Matrix	Analysis / Method Requested: 8081	Analysis / Method Requested: TOC
					GA	P			
					I	H			
					GW	GW			
100030	CO-GW-MW-45S	4-6-10	1449	2	1	1			
100031	CO-GW-MW-45D	4-6-10	1523	2	1	1			
100032	CO-GW-MW-16S	4-7-10	1353	1	1				
100033	CO-GW-MW-16D	4-7-10	1414	1	1				
100034	CO-GW-MW-36S	4-7-10	1501	1	1				

Due Date Requested*:

☐ FDEP PreApproval site
☐ Cash rates

Remarks / Comments:

Length of Record Retention if other than 5 years:*

Sampler Signature / Date: Tyttarbin / 4-7-10

Printed Name / Affiliation: Tyttarbin / TASK

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit
GA = Glass Amber; T = Tedlar Bag
P = Plastic; O = Other (Specify)
S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice
I = Ice only; VS = MeOH, OFW, + Ice
N = Nitric Acid + Ice; T = Sodium thiosulfate + ice
B = Sodium bisulfite + Ice; O = Other (Specify)

Matrix Codes:
A = Air; SO = Soil
DW = Drinking Water; SOL = Solid
GW = Ground Water; SW = Surface Water
SE = Sediment; W = Water (Blanks)
O = Other (Specify)

Internal Use Only
Temp upon receipt: 3.6 °C
Received on Ice? (Y) / N / NA

Internal Use Only
Sample Condition Upon Receipt:
Custody Seals present? Y / N / (NA)
Custody Seals intact? Y / N / (NA)
Shipping Bills attached? Y / N / (NA)
Sample containers intact? (Y) / N / NA
Samples within holding times? (Y) / N / NA
Sufficient volume for all analyses? (Y) / N / NA
Are vials head-space free? Y / N / (NA)
Proper containers and preservatives? (Y) / N / NA

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR DISPOSAL OF UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
	Tyttarbin	4/5/10	
Tyttarbin	Joe R	4-8-10	9:15

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

* See General Terms and Conditions on Reverse

SunLabs, Inc. Chain of Custody

№ 23661

Client Name: TASK
Contact: Susan Toben
Address: 27751 Lakefield Dr, Tampa, FL
Phone / Fax: (352) 783-0717
E-Mail:

SunLabs Project # 100408.07

Project Name: Chevron Orlando
Project #: 60215
PO #:
Alt Bill To: Arcadis Attention

SunLabs Sample #	Sample Description	Sampled Date	Sampled Time	# of Bottles	Bottle Type	Preservative	Matrix	SOM 01	TAC	TCLP Pesticides
					GA	P	GA			
					I	H	I			
					GW	GW	SO			
100079	CO-GW-MW-1D	4-8-10	0907	1				1		
100080	CO-GW-MW-101D	4-8-10	0907	1				1		
100081	CO-GW-MW-36D	4-8-10	0941	3				3		
100082	CO-GW-MW-50S	4-8-10	1202	2				1	1	
100083	CO-GW-MW-50D	4-8-10	1249	2				1	1	
100084	CO-GW-EQBK-1	4-8-10	1300	1				1		
100085	CO-SO-COMP-1	4-8-10	1100	1						1

Due Date Requested*:

☐ FDEP PreApproval site
☐ Cash rates

Remarks / Comments:

Length of Record Retention if other than 5 years:* _____

Sampler Signature / Date: [signature] / 4-8-10

Printed Name / Affiliation: Tyffanie / TASK

Bottle Type Codes:

GV = Glass Vial
GVS = Low Level Volatile Kit
GA = Glass Amber
T = Tedlar Bag
P = Plastic
O = Other (Specify)
S = Soil Jar

Preservative Codes:

H = Hydrochloric Acid + Ice
S = Sulfuric Acid + Ice
I = Ice only
VS = MeOH, DFW, + Ice
N = Nitric Acid + Ice
T = Sodium thiosulfate + Ice
B = Sodium bisulfite + Ice
O = Other (Specify) _____

Matrix Codes:

A = Air
SO = Soil
DW = Drinking Water
SOL = Solid
GW = Ground Water
SW = Surface Water
SE = Sediment
W = Water (Blanks)
O = Other (Specify)

Internal Use Only

Temp upon receipt: 1.3 °C

Received on Ice? (Y) / N / NA

Internal Use Only

Sample Condition Upon Receipt:

Custody Seals present? Y / N / (NA)
Custody Seals intact? Y / N / (NA)
Shipping Bills attached? Y / N / (NA)
Sample containers intact? (Y) / N / NA
Samples within holding times? (Y) / N / NA
Sufficient volume for all analyses? (Y) / N / NA
Are vials head-space free? Y / N / (NA)
Proper containers and preservatives? (Y) / N / NA

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR DISPOSAL OF UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
[signature]	[signature]	4/5/10	
[signature]	FEDEX	4-8-10	1560
Fedex	CHelber	4/9/10	1000

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

* See General Terms and Conditions on Reverse

Generator's Non-hazardous Waste Profile Sheet

National Account Customer

WASTE MANAGEMENT

Requested Disposal Facility: Okeechobee Landfill Profile Number: 105183FL

☐ Renewal for Profile Number: _____ Waste Approval Expiration Date: _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: Chevron EMC
2. Site Address: 3100 North Orange Blossom Trail
3. City/ZIP: Orlando, 32804
4. State: Florida
5. County: Orange
6. Contact Name/Title: Mark Stella/Project Manager
7. Email Address: markstella@chevron.com
8. Phone: 713.432.2643 9. FAX: 713.432.2624
10. NAICS Code: _____
11. Generator USEPA ID #: _____
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P. O. Number: _____

1. Customer Name: Chevron EMC
2. Billing Address: 4800 Fournace Place, E 530A
3. City, State and ZIP: Bellaire, Texas, 77401
4. Contact Name: Mark Stella
5. Contact Email: markstella@chevron.com
6. Phone: 713.432.2643 FAX: 713.432.2624
7. Transporter Name: Waste Management, Inc.
8. Transporter ID # (if appl.): _____
9. Transporter Address: _____
10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Soil

State Waste Code(s): _____

b. Describe Process Generating Waste or Source of Contamination:

Waste soil from site excavation activities.

c. Typical Color(s): Brown

d. Strong Odor? ☑ Yes ☐ No Describe: Organic

e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: _____

f. Layers? ☐ Single layer ☐ Multi- layer ☑ NA

g. Water Reactive? ☐ Yes ☑ No If Yes, Describe: _____

h. Free Liquid Range (%): _____ to _____ ☑ NA(solid)

i. pH Range: ☐ ≤2 ☐ 2.1-12.4 ☐ ≥12.5 ☑ NA(solid) ☐ Actual: _____

j. Liquid Flash Point: ☐ < 140°F ☐ ≥ 140°F ☑ NA(solid) ☐ Actual: _____

k. Flammable Solid: ☐ Yes ☑ No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☑ (See Attached)

Constituents *(Total Composition Must be = 100%)*	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. TCLP-Metals	Nondetect			
2. TCLP Herbicides	Nondetect			
3. TCLP Mercury	Nondetect			
4. TCLP-Pesticides (chlordane - regulated level = 0.03 mg/L)	0.0053 I	mg/L		
5. TCLP Semivolatiles	Nondetect			
6. TCLP Volatiles (2-butanone - regulated level = 200 mg/L)	0.88 I	mg/L		

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ☑ One Time Event ☐ Base ☐ Repeat Event

b. Estimated Annual Quantity: 1,845 ☐ Tons ☑ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): _____

c. Shipping Frequency: One time event Units per ☐ Month ☐ Quarter ☐ Year ☑ One Time ☐ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☑ No

e. USDOT Shipping Description (if applicable): _____

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): Level D (gloves, steel-toe boots, hard hat, and safety glasses)

Generator's Non-hazardous Waste Profile Sheet

WASTE MANAGEMENT

105183FL

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste
   - ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris
   - ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☑ Yes ☐ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☑ No
   a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☑ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: SunLabs, Inc. / CO-SO-WC-01 / TCLP - Metals, Herbicides, Mercury, Pesticides, Semivolatiles, and Volatiles # Pages: 9
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ☐ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☐ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: Mark Stella 1/22/14 **Title:** Project Manager

Company Name: Chevron EMC **Name (Print):** Mark Stella

Date: January 22, 2010

FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation ☐ Non-hazardous solidification ☐ Other: _____

Approval Decision: ☐ Approved ☐ Not Approved

Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval: _____

- ☐ Shall not contain free liquid
- ☐ Shipment must be scheduled into disposal facility
- ☐ Approval Number must accompany each shipment
- ☐ Waste Manifest must accompany load

WM Authorization Name / Title: _____ **Date:** _____

State Authorization (if Required): _____ **Date:** _____

January 14, 2010

Susan Tobin
TASK Environmental , Inc.
27751 Lake Jem Road
Mount Dora, FL 32757

Re: SunLabs Project Number: **091224.05**
Client Project Description: **Chevron Orlando**

Dear Mrs. Tobin:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
94989	CO-SO-WC-01	12/23/2009
94990	TCLP Leachate/94989 (CO-SO-WC-01)	
94991	TCLP ZHE Leachate/94989 (CO-SO-WC-0	

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer
Vice President, Laboratory Operations

Enclosures

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94989**
Sample Designation **CO-SO-WC-01**

Matrix: Soil
Date Collected: 12/23/2009 13:30
Date Received: 12/24/2009 11:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Total Cyanide									
Date Analyzed			1/5/10	1				01/05/10 17:24	
Cyanide, Total	9012A	mg/kg	0.869 U	1	0.869	1.0		01/05/10 17:24	
pH									
pH, Solid	9045	SU	7.9	1				01/04/10	01/04/10
Sulfide									
Date Analyzed			12/29/09	1				12/29/09 13:50	
Sulfide	9030A	mg/kg	3.80 U	1	3.80	25		12/29/09 13:50	
TCLP Extraction									
Date Leached - TCLP	1311		12/28/09	1				12/28/09 17:00	
TCLP-Zero Headspace Extraction									
Date Leached	1311		12/30/09	1				12/30/09 15:00	12/30/09

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94990**
Sample Designation **TCLP Leachate/94989 (CO-SO-WC-01)**

Matrix: TCLP Leachate
Date Collected:
Date Received:

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP Metals									
Date Digested	3005		12/30/2009						12/30/09 09:20
Date Analyzed	6010		12/30/2009	1				12/30/09 17:08	
Arsenic	6010	mg/L	0.1 U	1	0.003	0.1	7440-38-2	12/30/09 17:08	12/30/09 09:20
Barium	6010	mg/L	0.1 U	1	0.001	0.1	7440-39-3	12/30/09 17:08	12/30/09 09:20
Cadmium	6010	mg/L	0.1 U	1	0.0006	0.1	7440-43-9	12/30/09 17:08	12/30/09 09:20
Chromium	6010	mg/L	0.1 U	1	0.0035	0.1	7440-47-3	12/30/09 17:08	12/30/09 09:20
Lead	6010	mg/L	0.1 U	1	0.0022	0.1	7439-92-1	12/30/09 17:08	12/30/09 09:20
Selenium	6010	mg/L	0.1 U	1	0.0047	0.1	7782-49-2	12/30/09 17:08	12/30/09 09:20
Silver	6010	mg/L	0.1 U	1	0.0032	0.1	7440-22-4	12/30/09 17:08	12/30/09 09:20
TCLP Herbicides by Method 8321									
Date Extracted	8321		01/05/10						01/05/10 18:30
Date Analyzed	8321		01/13/10	1				01/13/10 12:46	
2,4-Dichlorophenylacetic acid	8321	%	71	10			DEP-SURR-	01/13/10 12:46	01/05/10 18:30
2,4-D	8321	mg/L	0.016 U	10	0.016	50	94-75-7	01/13/10 12:46	01/05/10 18:30
2,4,5-TP (Silvex)	8321	mg/L	0.022 U	10	0.022	5	93-72-1	01/13/10 12:46	01/05/10 18:30
TCLP - Mercury									
Date Digested	7470		12/29/2009						12/29/09 14:30
Date Analyzed	7470		12/30/09 S19	1				12/30/09 17:59	
Mercury	7470	mg/L	0.00020 U	1	0.00020	0.05	7439-97-6	12/30/09 17:59	12/29/09 14:30
TCLP-Pesticides by Method 8081									
Date Extracted	3510		01/05/10						01/05/10 16:45
Date Analyzed	8081		1/9/10	1				01/09/10 01:14	
Surrogate	8081	%	74	1				01/09/10 01:14	01/05/10 16:45
Chlordane	8081	mg/L	0.0053 I	1	0.0001	0.03	57-74-9	01/12/10 16:08	01/05/10 16:45
Endrin	8081	mg/L	0.00009 U	1	0.00009	0.02	72-20-8	01/09/10 01:14	01/05/10 16:45
Heptachlor	8081	mg/L	0.00012 U	1	0.00012	0.008	76-44-8	01/09/10 01:14	01/05/10 16:45
Heptachlor epoxide	8081	mg/L	0.00011 U	1	0.00011	0.008	1024-57-3	01/09/10 01:14	01/05/10 16:45
Lindane	8081	mg/L	0.00012 U	1	0.00012	0.4	58-89-9	01/09/10 01:14	01/05/10 16:45
Methoxychlor	8081	mg/L	0.00009 U	1	0.00009	0.1	72-43-5	01/09/10 01:14	01/05/10 16:45
Toxaphene	8081	mg/L	0.002 U	1	0.002	0.03	8001-35-2	01/09/10 01:14	01/05/10 16:45
TCLP Semivolatiles by Method 8270									
Date Extracted	3510		01/05/10						01/05/10 16:45
Date Analyzed	8270		1/8/10	1				01/08/10 21:21	
2-Fluorobiphenyl (surrogate)	8270	%	87	1			321-60-8	01/08/10 21:21	01/05/10 16:45
2-Fluorophenol (surrogate)	8270	%	29	1			367-12-4	01/08/10 21:21	01/05/10 16:45
Nitrobenzene-d5 (surrogate)	8270	%	589	1				01/08/10 21:21	01/05/10 16:45
Phenol-d6 (surrogate)	8270	%	18	1				01/08/10 21:21	01/05/10 16:45
Terphenyl-d14 (surrogate)	8270	%	149	1				01/08/10 21:21	01/05/10 16:45
2,4,6-Tribromophenol (surrogate)	8270	%	58	1			118-79-6	01/08/10 21:21	01/05/10 16:45
1,4-Dichlorobenzene	8270	mg/L	0.05 U	1	0.05	0.1	106-46-7	01/08/10 21:21	01/05/10 16:45
2,4-Dinitrotoluene	8270	mg/L	0.065 U	1	0.065	0.13	121-14-2	01/08/10 21:21	01/05/10 16:45
Hexachlorobenzene	8270	mg/L	0.065 U	1	0.065	0.13	118-74-1	01/08/10 21:21	01/05/10 16:45

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520
Tampa, FL 33634

Laboratory ID Number - E84809

Phone: (813) 881-9401
Email: Info@SunLabsInc.com
Website: www.SunLabsInc.com

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94990**
Sample Designation **TCLP Leachate/94989 (CO-SO-WC-01)**

Matrix: TCLP Leachate
Date Collected:
Date Received:

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP Semivolatiles by Method 8270									
Hexachlorobutadiene	8270	mg/L	0.025 U	1	0.025	0.5	87-68-3	01/08/10 21:21	01/05/10 16:45
Hexachloroethane	8270	mg/L	1.5 U	1	1.5	3	67-72-1	01/08/10 21:21	01/05/10 16:45
m&p-cresol	8270	mg/L	100 U	1	100	200		01/08/10 21:21	01/05/10 16:45
Nitrobenzene	8270	mg/L	1 U	1	1	2	98-95-3	01/08/10 21:21	01/05/10 16:45
o-cresol	8270	mg/L	100 U	1	100	200	95-48-7	01/08/10 21:21	01/05/10 16:45
Pentachlorophenol	8270	mg/L	20 U	1	20	100	87-86-5	01/08/10 21:21	01/05/10 16:45
Pyridine	8270	mg/L	1.3 U	1	1.3	2.5	110-86-1	01/08/10 21:21	01/05/10 16:45
2,4,5-Trichlorophenol	8270	mg/L	200 U	1	200	400	95-95-4	01/08/10 21:21	01/05/10 16:45
2,4,6-Trichlorophenol	8270	mg/L	1 U	1	1	2	88-06-2	01/08/10 21:21	01/05/10 16:45

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94991**
Sample Designation **TCLP ZHE Leachate/94989 (CO-SO-WC-01)**

Matrix: TCLP ZHE Leachate
Date Collected:
Date Received:

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP Volatiles by EPA Method 8260									
Date Analyzed			01/06/10	1				01/06/10 17:42	
Bromofluorobenzene (surrogate)	8260	%	96	1			460-00-4	01/06/10 17:42	
Dibromofluoromethane (surrogate)	8260	%	98	1				01/06/10 17:42	
Toluene-d8 (surrogate)	8260	%	91	1			2037-26-5	01/06/10 17:42	
Benzene	8260	mg/L	0.1 U	1	0.1	0.5	71-43-2	01/06/10 17:42	
2-Butanone	8260	mg/L	0.88 I	1	0.4	2	78-93-3	01/06/10 17:42	
Carbon tetrachloride	8260	mg/L	0.2 U	1	0.2	0.8	56-23-5	01/06/10 17:42	
Chlorobenzene	8260	mg/L	0.2 U	1	0.2	0.8	108-90-7	01/06/10 17:42	
Chloroform	8260	mg/L	0.1 U	1	0.1	0.5	67-66-3	01/06/10 17:42	
1,4-Dichlorobenzene	8260	mg/L	0.4 U	1	0.4	1.6	106-46-7	01/06/10 17:42	
1,2-Dichloroethane	8260	mg/L	0.2 U	1	0.2	0.8	107-06-2	01/06/10 17:42	
1,1-Dichloroethene	8260	mg/L	0.15 U	1	0.15	0.6	75-35-4	01/06/10 17:42	
Tetrachloroethene	8260	mg/L	0.25 U	1	0.25	1	127-18-4	01/06/10 17:42	
Trichloroethene	8260	mg/L	0.2 U	1	0.2	0.8	79-01-6	01/06/10 17:42	
Vinyl chloride	8260	mg/L	0.09 U	1	0.09	0.5	75-01-4	01/06/10 17:42	

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

Footnotes	
*	SunLabs is not currently NELAC certified for this analyte.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Sample not analyzed at client's request.
Q	Sample held beyond the accepted holding time.
RL	RL(reporting limit) = PQL(practical quantitation limit).
RPD	Relative Percent Difference
S19	Analysis performed by Millenium Laboratories, Inc. NELAC# E84899.
U	Compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.

Quality Control Data

Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

Batch No: D2604

Test: TCLP - Mercury

TestCode: TCLP-Hg

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC Limits RPD	QC Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits RPD	QC Limits MS	Dup RPD	Qualifiers
Parent Sample Number									94990						
Mercury	0.00016 U mg/L							0.010	67						

Batch No: D2621

Test: TCLP Metals

TestCode: TCLP-7

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC Limits RPD	QC Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits RPD	QC Limits MS	Dup RPD	Qualifiers
Parent Sample Number									94990						
Arsenic	0.1 U mg/L							1000	97				74-113		
Barium	0.1 U mg/L							1000	97				71-121		
Cadmium	0.1 U mg/L							1000	103				68-113		
Chromium	0.1 U mg/L							1000	102				61-126		
Lead	0.1 U mg/L							1000	99				61-115		
Selenium	0.1 U mg/L							1000	104				73-114		
Silver	0.1 U mg/L							1000	90				68-112		

Batch No: D2671

Test: TCLP Semivolatiles by Method 8270

TestCode: TCLP-SV

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC Limits RPD	QC Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits RPD	QC Limits MS	Dup RPD	Qualifiers
Parent Sample Number									94990						
2-Fluorobiphenyl (surrogate)	87 %														
2-Fluorophenol (surrogate)	38 %														
Nitrobenzene-d5 (surrogate)	89 %														
Phenol-d6 (surrogate)	19 %														
Terphenyl-d14 (surrogate)	126 %														
2,4,6-Tribromophenol (surrogate)	76 %														
1,4-Dichlorobenzene	0.05 U mg/L							50	70						
2,4-Dinitrotoluene	0.065 U mg/L							50	96						
Hexachlorobenzene	0.065 U mg/L							50	97						
Hexachlorobutadiene	0.025 U mg/L							50	85						
Hexachloroethane	1.5 U mg/L							50	71						
m&p-cresol	100 U mg/L							50	80						
Nitrobenzene	1.0 U mg/L							50	95						
o-cresol	100 U mg/L							50	41						
Pentachlorophenol	20 U mg/L							50	90						
Pyridine	1.3 U mg/L							50	36						
2,4,5-Trichlorophenol	200 U mg/L							50	82						
2,4,6-Trichlorophenol	1.0 U mg/L							50	91						

Batch No: D2672

Test: TCLP-Pesticides by Method 8081

TestCode: TCLP-Pest

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC Limits RPD	QC Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits RPD	QC Limits MS	Dup RPD	Qualifiers
Parent Sample Number									94990						
Surrogate	69 %														
Chlordane	0.0001 U mg/L														

Quality Control Data

Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

Batch No: D2672

Test: TCLP-Pesticides by Method 8081

TestCode: TCLP-Pest

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC Limits RPD	QC Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits RPD	QC Limits MS	Dup RPD	Qualifiers
Parent Sample Number								*94990*							
Endrin	0.00009 U mg/L							100	111				0-172		
Heptachlor	0.00012 U mg/L							100	87				0-160		
Heptachlor epoxide	0.00011 U mg/L							100	81						
Lindane	0.00012 U mg/L							100	65				19-139		
Methoxychlor	0.00009 U mg/L							100	70						
Toxaphene	0.002 U mg/L														

Batch No: D2693

Test: TCLP Volatiles by EPA Method 8260

TestCode: TCLP-V

Associated Samples: 94991

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC Limits RPD	QC Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits RPD	QC Limits MS	Dup RPD	Qualifiers
Parent Sample Number								*94991*							
Bromofluorobenzene (surrogate)	94 %														
Dibromofluoromethane (surrogate)	98 %														
Toluene-d8 (surrogate)	92 %														
Benzene	0.10 U mg/L							50	94				58-142		
2-Butanone	0.40 U mg/L							50	94						
Carbon tetrachloride	0.20 U mg/L							50	101						
Chlorobenzene	0.20 U mg/L							50	94				67-126		
Chloroform	0.10 U mg/L							50	96						
1,4-Dichlorobenzene	0.40 U mg/L							50	95						
1,2-Dichloroethane	0.20 U mg/L							50	93						
1,1-Dichloroethene	0.15 U mg/L							50	93				41-163		
Tetrachloroethene	0.25 U mg/L							50	93						
Trichloroethene	0.20 U mg/L							50	94				23-160		
Vinyl chloride	0.09 U mg/L							50	91						

Batch No: D2714

Test: TCLP Herbicides by Method 8321

TestCode: TCLP-Herb-8321

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC Limits RPD	QC Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits RPD	QC Limits MS	Dup RPD	Qualifiers
Parent Sample Number								*94990*							
2,4-Dichlorophenylacetic acid	72 %														
2,4-D	0.0016 U mg/L	5	88					5	84				0-157		
2,4,5-TP (Silvex)	0.0022 U mg/L	5	78					5	71				0-132		

* Indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

U — *Compound was analyzed for but not detected.*

№ 21300

SunLabs, Inc. Chain of Custody

Client Name: TASK
Contact: Susan Tobin
Address: 27751 Lake Joanna Rd
Mt. Dora FL 32757
Phone / Fax: (352) 383-0171
E-Mail :

SunLabs Project # 091224.05

Project Name: Chevron Orlando
Project #: 60 245
PO #:
Alt Bill To:

SunLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	Bottle Type	Preservative	Matrix	Analysis / Method Requested	See Remarks
					AG	I	S		
94089	CO-GO-WC 01	12/23/09	1330	2	2				
94090									
94091									

Due Date Requested:

☐ FDEP PreApproval site ☐ Current rates ☐ Old rates
☐ Cash rates

Remarks / Comments:
TCLP VOCs; TCLP Semi-Vols; TCLP Metals; TCLP Pesticides; TCLP Herbicides; Reactivity Corrosivity

Sampler Signature / Date: 12-23-09

Printed Name / Affiliation: Ty Hrubin / TASK

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES

Relinquished By:	Relinquished To:	Date:	Time:
Ty Hrubin	FEDEX	12/23	1800
Fed Ex	LA Palmer	12/24	1115

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit
GA = Glass Amber; T = Tedlar Bag
P = Plastic; O = Other
S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice
I = Ice only; VS = MeOH, OFW, + Ice
N = Nitric Acid + Ice; O = Other (Specify)

Matrix Codes:
A = Air; SO = Soil
DW = Drinking Water; SOL = Solid
GW = Ground Water; SW = Surface Water
SE = Sediment; W = Water (Blanks)
O = Other (Specify)

Internal Use Only
Sample Condition Upon Receipt
Custody Seals present? Y / N / NA
Shipping Bills attached? Y / N / NA
Sample containers intact? Y / N / NA
Samples within holding times? Y / N / NA
Sufficient volume for all analyses? Y / N / NA
Are VOA's head-space free? Y / N / NA
Proper containers and preservatives? Y / N / NA

Temp: 5.5°C
Received on ice? (Y) N / NA

SunLabs, Inc.
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Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

January 14, 2010

Susan Tobin
TASK Environmental , Inc.
27751 Lake Jem Road
Mount Dora, FL 32757

Re: SunLabs Project Number: **091224.05**
Client Project Description: **Chevron Orlando**

Dear Mrs. Tobin:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
94989	CO-SO-WC-01	12/23/2009
94990	TCLP Leachate/94989 (CO-SO-WC-01)	
94991	TCLP ZHE Leachate/94989 (CO-SO-WC-0	

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer
Vice President, Laboratory Operations

Enclosures

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94989**
Sample Designation **CO-SO-WC-01**

Matrix: Soil
Date Collected: 12/23/2009 13:30
Date Received: 12/24/2009 11:15

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Total Cyanide									
Date Analyzed			1/5/10	1				01/05/10 17:24	
Cyanide, Total	9012A	mg/kg	0.869 U	1	0.869	1.0		01/05/10 17:24	
pH									
pH, Solid	9045	SU	7.9	1				01/04/10	01/04/10
Sulfide									
Date Analyzed			12/29/09	1				12/29/09 13:50	
Sulfide	9030A	mg/kg	3.80 U	1	3.80	25		12/29/09 13:50	
TCLP Extraction									
Date Leached - TCLP	1311		12/28/09	1				12/28/09 17:00	
TCLP-Zero Headspace Extraction									
Date Leached	1311		12/30/09	1				12/30/09 15:00	12/30/09

SunLabs, Inc.
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Email: Info@SunLabsInc.com
Website: www.SunLabsInc.com

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94990**
Sample Designation **TCLP Leachate/94989 (CO-SO-WC-01)**

Matrix TCLP Leachate
Date Collected
Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP Metals									
Date Digested	3005		12/30/2009						12/30/09 09:20
Date Analyzed	6010		12/30/2009	1				12/30/09 17:08	
Arsenic	6010	mg/L	0.1 U	1	0.003	0.1	7440-38-2	12/30/09 17:08	12/30/09 09:20
Barium	6010	mg/L	0.1 U	1	0.001	0.1	7440-39-3	12/30/09 17:08	12/30/09 09:20
Cadmium	6010	mg/L	0.1 U	1	0.0006	0.1	7440-43-9	12/30/09 17:08	12/30/09 09:20
Chromium	6010	mg/L	0.1 U	1	0.0035	0.1	7440-47-3	12/30/09 17:08	12/30/09 09:20
Lead	6010	mg/L	0.1 U	1	0.0022	0.1	7439-92-1	12/30/09 17:08	12/30/09 09:20
Selenium	6010	mg/L	0.1 U	1	0.0047	0.1	7782-49-2	12/30/09 17:08	12/30/09 09:20
Silver	6010	mg/L	0.1 U	1	0.0032	0.1	7440-22-4	12/30/09 17:08	12/30/09 09:20
TCLP Herbicides by Method 8321									
Date Extracted	8321		01/05/10						01/05/10 18:30
Date Analyzed	8321		01/13/10	1				01/13/10 12:46	
2,4-Dichlorophenylacetic acid	8321	%	71	10			DEP-SURR-	01/13/10 12:46	01/05/10 18:30
2,4-D	8321	mg/L	0.016 U	10	0.016	50	94-75-7	01/13/10 12:46	01/05/10 18:30
2,4,5-TP (Silvex)	8321	mg/L	0.022 U	10	0.022	5	93-72-1	01/13/10 12:46	01/05/10 18:30
TCLP - Mercury									
Date Digested	7470		12/29/2009						12/29/09 14:30
Date Analyzed	7470		12/30/09 S19	1				12/30/09 17:59	
Mercury	7470	mg/L	0.00020 U	1	0.00020	0.05	7439-97-6	12/30/09 17:59	12/29/09 14:30
TCLP-Pesticides by Method 8081									
Date Extracted	3510		01/05/10						01/05/10 16:45
Date Analyzed	8081		1/9/10	1				01/09/10 01:14	
Surrogate	8081	%	74	1				01/09/10 01:14	01/05/10 16:45
Chlordane	8081	mg/L	0.0053 I	1	0.0001	0.03	57-74-9	01/12/10 16:08	01/05/10 16:45
Endrin	8081	mg/L	0.00009 U	1	0.00009	0.02	72-20-8	01/09/10 01:14	01/05/10 16:45
Heptachlor	8081	mg/L	0.00012 U	1	0.00012	0.008	76-44-8	01/09/10 01:14	01/05/10 16:45
Heptachlor epoxide	8081	mg/L	0.00011 U	1	0.00011	0.008	1024-57-3	01/09/10 01:14	01/05/10 16:45
Lindane	8081	mg/L	0.00012 U	1	0.00012	0.4	58-89-9	01/09/10 01:14	01/05/10 16:45
Methoxychlor	8081	mg/L	0.00009 U	1	0.00009	0.1	72-43-5	01/09/10 01:14	01/05/10 16:45
Toxaphene	8081	mg/L	0.002 U	1	0.002	0.03	8001-35-2	01/09/10 01:14	01/05/10 16:45
TCLP Semivolatiles by Method 8270									
Date Extracted	3510		01/05/10						01/05/10 16:45
Date Analyzed	8270		1/8/10	1				01/08/10 21:21	
2-Fluorobiphenyl (surrogate)	8270	%	87	1			321-60-8	01/08/10 21:21	01/05/10 16:45
2-Fluorophenol (surrogate)	8270	%	29	1			367-12-4	01/08/10 21:21	01/05/10 16:45
Nitrobenzene-d5 (surrogate)	8270	%	589	1				01/08/10 21:21	01/05/10 16:45
Phenol-d6 (surrogate)	8270	%	18	1				01/08/10 21:21	01/05/10 16:45
Terphenyl-d14 (surrogate)	8270	%	149	1				01/08/10 21:21	01/05/10 16:45
2,4,6-Tribromophenol (surrogate)	8270	%	58	1			118-79-6	01/08/10 21:21	01/05/10 16:45
1,4-Dichlorobenzene	8270	mg/L	0.05 U	1	0.05	0.1	106-46-7	01/08/10 21:21	01/05/10 16:45
2,4-Dinitrotoluene	8270	mg/L	0.065 U	1	0.065	0.13	121-14-2	01/08/10 21:21	01/05/10 16:45
Hexachlorobenzene	8270	mg/L	0.065 U	1	0.065	0.13	118-74-1	01/08/10 21:21	01/05/10 16:45

SunLabs, Inc.
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Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94990**
Sample Designation **TCLP Leachate/94989 (CO-SO-WC-01)**

Matrix: TCLP Leachate
Date Collected:
Date Received:

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP Semivolatiles by Method 8270									
Hexachlorobutadiene	8270	mg/L	0.025 U	1	0.025	0.5	87-68-3	01/08/10 21:21	01/05/10 16:45
Hexachloroethane	8270	mg/L	1.5 U	1	1.5	3	67-72-1	01/08/10 21:21	01/05/10 16:45
m&p-cresol	8270	mg/L	100 U	1	100	200		01/08/10 21:21	01/05/10 16:45
Nitrobenzene	8270	mg/L	1 U	1	1	2	98-95-3	01/08/10 21:21	01/05/10 16:45
o-cresol	8270	mg/L	100 U	1	100	200	95-48-7	01/08/10 21:21	01/05/10 16:45
Pentachlorophenol	8270	mg/L	20 U	1	20	100	87-86-5	01/08/10 21:21	01/05/10 16:45
Pyridine	8270	mg/L	1.3 U	1	1.3	2.5	110-86-1	01/08/10 21:21	01/05/10 16:45
2,4,5-Trichlorophenol	8270	mg/L	200 U	1	200	400	95-95-4	01/08/10 21:21	01/05/10 16:45
2,4,6-Trichlorophenol	8270	mg/L	1 U	1	1	2	88-06-2	01/08/10 21:21	01/05/10 16:45

Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

SunLabs Sample Number **94991**
Sample Designation **TCLP ZHE Leachate/94989 (CO-SO-WC-01)**

Matrix: TCLP ZHE Leachate
Date Collected:
Date Received:

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
TCLP Volatiles by EPA Method 8260									
Date Analyzed			01/06/10	1				01/06/10 17:42	
Bromofluorobenzene (surrogate)	8260	%	96	1			460-00-4	01/06/10 17:42	
Dibromofluoromethane (surrogate)	8260	%	98	1				01/06/10 17:42	
Toluene-d8 (surrogate)	8260	%	91	1			2037-26-5	01/06/10 17:42	
Benzene	8260	mg/L	0.1 U	1	0.1	0.5	71-43-2	01/06/10 17:42	
2-Butanone	8260	mg/L	0.88 I	1	0.4	2	78-93-3	01/06/10 17:42	
Carbon tetrachloride	8260	mg/L	0.2 U	1	0.2	0.8	56-23-5	01/06/10 17:42	
Chlorobenzene	8260	mg/L	0.2 U	1	0.2	0.8	108-90-7	01/06/10 17:42	
Chloroform	8260	mg/L	0.1 U	1	0.1	0.5	67-66-3	01/06/10 17:42	
1,4-Dichlorobenzene	8260	mg/L	0.4 U	1	0.4	1.6	106-46-7	01/06/10 17:42	
1,2-Dichloroethane	8260	mg/L	0.2 U	1	0.2	0.8	107-06-2	01/06/10 17:42	
1,1-Dichloroethene	8260	mg/L	0.15 U	1	0.15	0.6	75-35-4	01/06/10 17:42	
Tetrachloroethene	8260	mg/L	0.25 U	1	0.25	1	127-18-4	01/06/10 17:42	
Trichloroethene	8260	mg/L	0.2 U	1	0.2	0.8	79-01-6	01/06/10 17:42	
Vinyl chloride	8260	mg/L	0.09 U	1	0.09	0.5	75-01-4	01/06/10 17:42	

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Report of Laboratory Analysis

SunLabs Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

Footnotes

*	*SunLabs is not currently NELAC certified for this analyte.*
I	*The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.*
LCS	*Laboratory Control Sample*
LCSD	*Laboratory Control Sample Duplicate*
MB	*Method Blank*
MS	*Matrix Spike*
MSD	*Matrix Spike Duplicate*
NA	*Sample not analyzed at client's request.*
Q	*Sample held beyond the accepted holding time.*
RL	*RL(reporting limit) = PQL(practical quantitation limit).*
RPD	*Relative Percent Difference*
S19	*Analysis performed by Millenium Laboratories, Inc. NELAC# E84899.*
U	*Compound was analyzed for but not detected.*
V	*Indicates that the analyte was detected in both the sample and the associated method blank.*

Quality Control Data

Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

Batch No: D2604

Test: TCLP - Mercury

TestCode: TCLP-Hg

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*94990*						
Mercury	0.00016 U mg/L							0.010	87						

Batch No: D2621

Test: TCLP Metals

TestCode: TCLP-7

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*94900*						
Arsenic	0.1 U mg/L							1000	97				74-113		
Barium	0.1 U mg/L							1000	97				71-121		
Cadmium	0.1 U mg/L							1000	103				68-113		
Chromium	0.1 U mg/L							1000	102				61-126		
Lead	0.1 U mg/L							1000	99				61-115		
Selenium	0.1 U mg/L							1000	104				73-114		
Silver	0.1 U mg/L							1000	90				68-112		

Batch No: D2671

Test: TCLP Semivolatiles by Method 8270

TestCode: TCLP-SV

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*94990*						
2-Fluorobiphenyl (surrogate)	87 %														
2-Fluorophenol (surrogate)	38 %														
Nitrobenzene-d5 (surrogate)	89 %														
Phenol-d6 (surrogate)	19 %														
Terphenyl-d14 (surrogate)	126 %														
2,4,6-Tribromophenol (surrogate)	76 %														
1,4-Dichlorobenzene	0.05 U mg/L							50	70						
2,4-Dinitrotoluene	0.065 U mg/L							50	96						
Hexachlorobenzene	0.065 U mg/L							50	97						
Hexachlorobutadiene	0.025 U mg/L							50	85						
Hexachloroethane	1.5 U mg/L							50	71						
m&p-cresol	100 U mg/L							50	80						
Nitrobenzene	1.0 U mg/L							50	95						
o-cresol	100 U mg/L							50	41						
Pentachlorophenol	20 U mg/L							50	90						
Pyridine	1.3 U mg/L							50	36						
2,4,5-Trichlorophenol	200 U mg/L							50	82						
2,4,6-Trichlorophenol	1.0 U mg/L							50	91						

Batch No: D2672

Test: TCLP-Pesticides by Method 8081

TestCode: TCLP-Pest

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	MS	Dup RPD	Qualifiers
Parent Sample Number									*94990*						
Surrogate	69 %														
Chlordane	0.0001 U mg/L														

Quality Control Data

Project Number	TASK Environmental , Inc.
091224.05	Project Description: Chevron Orlando

January 14, 2010

Batch No: D2672

Test: TCLP-Pesticides by Method 8081

TestCode: TCLP-Pest

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- MS	Dup RPD	Qualifiers
Parent Sample Number									*94990*						
Endrin	0.00009 U mg/L							100	111				0-172		
Heptachlor	0.00012 U mg/L							100	87				0-160		
Heptachlor epoxide	0.00011 U mg/L							100	81						
Lindane	0.00012 U mg/L							100	85				19-139		
Methoxychlor	0.00009 U mg/L							100	70						
Toxaphene	0.002 U mg/L														

Batch No: D2693

Test: TCLP Volatiles by EPA Method 8260

TestCode: TCLP-V

Associated Samples: 94991

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- MS	Dup RPD	Qualifiers
Parent Sample Number									*94991*						
Bromofluorobenzene (surrogate)	94 %														
Dibromofluoromethane (surrogate)	98 %														
Toluene-d8 (surrogate)	92 %														
Benzene	0.10 U mg/L							50	94				58-142		
2-Butanone	0.40 U mg/L							50	94						
Carbon tetrachloride	0.20 U mg/L							50	101						
Chlorobenzene	0.20 U mg/L							50	94				67-126		
Chloroform	0.10 U mg/L							50	96						
1,4-Dichlorobenzene	0.40 U mg/L							50	95						
1,2-Dichloroethane	0.20 U mg/L							50	93						
1,1-Dichloroethene	0.15 U mg/L							50	93				41-163		
Tetrachloroethene	0.25 U mg/L							50	93						
Trichloroethene	0.20 U mg/L							50	94				23-180		
Vinyl chloride	0.09 U mg/L							50	91						

Batch No: D2714

Test: TCLP Herbicides by Method 8321

TestCode: TCLP-Herb-8321

Associated Samples: 94990

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	--QC Limits-- RPD	--QC Limits-- MS	Dup RPD	Qualifiers
Parent Sample Number									*94990*						
2,4-Dichlorophenylacetic acid	72 %														
2,4-D	0.0016 U mg/L	5	88					5	84				0-157		
2,4,5-TP (Silvex)	0.0022 U mg/L	5	78					5	71				0-132		

* indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

U — Compound was analyzed for but not detected.

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520
Tampa, FL 33634

Laboratory ID Number - E84809

Phone: (813) 881-9401
Email: Info@SunLabsInc.com
Website: www.SunLabsInc.com

№ 21300

SunLabs, Inc. Chain of Custody

Client Name: TASK
Contact: Susan Tobin
Address: 27757 Lake Jeanette Rd Mt. Dora, FL 32757
Phone / Fax: (352) 383-0171
E-Mail :

SunLabs Project # 091224.05

Project Name: Chevron Orlando
Project #: 60 215
PO #:
Alt Bill To:

SunLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	Bottle Type	Preservative	Matrix	Analysis / Method Requested	see remarks
					PG	I	S		
91989	CO-SO-WC-01	12/23/09	1330	2	2				
91990									
91991									

Due Date Requested:

☐ FDEP PreApproval site ☐ Current rates ☐ Old rates

☐ Cash rates

Remarks / Comments:
TCLP VOCs; TCLP Semi-Vols; TCLP Metals; TCLP Pesticides; TCLP Herbicides; Reactivity Corrosivity

Sampler Signature / Date: 12-23-09

Printed Name / Affiliation: Ty Hrebin / TASK

SUNLABS, INC RESERVES THE RIGHT TO BILL FOR UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
Ty Hrebin	FEDEX	12/23	1800
Fed Ex	LA Palmer	12/24	1115

Bottle Type Codes:
GV = Glass Vial; GVS = Low Level Volatile Kit; GA = Glass Amber; T = Tedlar Bag; P = Plastic; O = Other; S = Soil Jar

Preservative Codes:
H = Hydrochloric Acid + Ice; S = Sulfuric Acid + Ice; I = Ice only; VS = MeOH, OFW, + Ice; N = Nitric Acid + Ice; O = Other (Specify)

Matrix Codes:
A = Air; SO = Soil; DW = Drinking Water; SOL = Solid; GW = Ground Water; SW = Surface Water; SE = Sediment; W = Water (Blanks); O = Other (Specify)

Internal Use Only
Sample Condition Upon Receipt
Temp: 5.5°C
Received on Ice? (Y) N / NA
Custody Seals present? Y / N (NA)
Shipping Bill attached? (Y) N / NA
Sample containers intact? (Y) N / NA
Samples within holding times? (Y) N / NA
Sufficient volume for all analyses? (Y) N / NA
VOA Vials head space free? Y / N (NA)
Proper containers and preservatives? (Y) N / NA

SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634
Phone: 813-881-9401 / Fax: 813-354-4661
e-mail: info@SunLabsInc.com www.SunLabsInc.com

ARCADIS

Appendix E

Soil Geotechnical Data Analysis
Laboratory Report

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Threshold
Environmental Sciences • Construction Materials Testing

Project No.: 0110.0800856.0000

Date Typed: November 18, 2008

Field and Laboratory Report Cover Page

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

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As requested, a representative of Universal Engineering Sciences, Inc. (UES) was at the referenced project to provide construction materials testing services.

Scope of Work

Report No.	Type of Report
733942, 733944, 733945, 733949, 733951, 733956, 733957, 733963, 733964	Sieve Analysis/Additional Testing

The results of the observations and or tests are summarized on the attached sheets. We hope this information is sufficient for your immediate needs. If you have any questions, please do not hesitate to contact the undersigned.

Reviewed By,
Universal Engineering Sciences, Inc.
C.O.A. No. 00000549

Fred J. Schmalzer, P.E.
Signature Date: 11-20-08
Vice President - Construction Services
STATE OF FLORIDA
Professional Engineer No. 38818

cc: Client (2)

Attachments: (9)
ah

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733942.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-112, Zone 1 at 0850 **Date Tested:** 11/12/08

Sample No.: 1 **Tested by:** Nancy Dorrow

Depth: 2-2.5'

SIEVE ANALYSIS	
Sieve No.	*% Passing*
No. 4	100
No. 10	100
No. 40	97.5
No. 60	96.6
No. 100	63.9
No. 200	9.6

Additional Testing	
Test Description	Results
Moisture Content (%)	10.0
Permeability (ft / day)	12.4
Wet Density (lbs / ft^3)	95.5
Dry Density (lbs / ft^3)	87.1
Porosity (%)	53.3

UNIVERSAL
ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733944.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835 .

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-112, Zone 2 at 0852 **Date Tested:** 11/12/08

Sample No.: 2 **Tested by:** Nancy Dorrow

Depth: 3.5-4'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	100
No. 10	100
No. 40	99.3
No. 60	96.9
No. 100	62.2
No. 200	5.4

Additional Testing	
Test Description	**Results**
Moisture Content (%)	5.2
Permeability (ft / day)	8.6
Wet Density (lbs / ft^3)	99.3
Dry Density (lbs / ft^3)	94.2
Porosity (%)	60.0

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733945.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-112, Zone 3 at 0856 **Date Tested:** 11/12/08

Sample No.: 3 **Tested by:** Nancy Dorrow

Depth: 6-6.5'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	100
No. 10	100
No. 40	99.5
No. 60	97.7
No. 100	67.0
No. 200	17.5

Additional Testing	
Test Description	**Results**
Moisture Content (%)	28.4
Permeability (ft / day)	2.4
Wet Density (lbs / ft^3)	112.6
Dry Density (lbs / ft^3)	95.9
Porosity (%)	43.3

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ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733949.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-111, Zone 1 at 0930 **Date Tested:** 11/13/08

Sample No.: 4 **Tested by:** Nancy Dorrow

Depth: 2-2.5'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	97.4
No. 10	93.1
No. 40	86.6
No. 60	82.9
No. 100	56.1
No. 200	14.1

Additional Testing	
Test Description	**Results**
Moisture Content (%)	14.3
Permeability (ft / day)	6.3
Wet Density (lbs / ft^3)	83.1
Dry Density (lbs / ft^3)	72.8
Porosity (%)	43.3

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ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733951.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-111, Zone 2 at 0935 **Date Tested:** 11/13/08

Sample No.: 5 **Tested by:** Nancy Dorrow

Depth: 4-4.5'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	100
No. 10	100
No. 40	99.4
No. 60	96.7
No. 100	64.0
No. 200	9.0

Additional Testing	
Test Description	**Results**
Moisture Content (%)	9.2
Permeability (ft / day)	4.1
Wet Density (lbs / ft^3)	116.4
Dry Density (lbs / ft^3)	107.1
Porosity (%)	56.0

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733956.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-111, Zone 3 at 1000 **Date Tested:** 11/13/08

Sample No.: 6 **Tested by:** Nancy Dorrow

Depth: 6-6.5'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	100
No. 10	100
No. 40	99.3
No. 60	96.8
No. 100	57.1
No. 200	9.8

Additional Testing	
Test Description	**Results**
Moisture Content (%)	25.2
Permeability (ft / day)	3.1
Wet Density (lbs / ft^3)	111.3
Dry Density (lbs / ft^3)	101.4
Porosity (%)	46.7

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733957.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-110, Zone 1 at 1030 **Date Tested:** 11/14/08

Sample No.: 7 **Tested by:** Nancy Dorrow

Depth: 1.5-2'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	100
No. 10	99.2
No. 40	97.4
No. 60	94.2
No. 100	63.5
No. 200	15.1

Additional Testing	
Test Description	**Results**
Moisture Content (%)	17.5
Permeability (ft / day)	2.6
In-Place Wet Density (lbs / ft^3)	79.6
In-Place Dry Density (lbs / ft^3)	69.2
Porosity (%)	50.0

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ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733963.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: *Pharos*
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-110, Zone 2 at 1038 **Date Tested:** 11/14/08

Sample No.: 8 **Tested by:** Nancy Dorrow

Depth: 3.5-4'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	100
No. 10	100
No. 40	99.4
No. 60	96.8
No. 100	63.6
No. 200	9.9

Additional Testing	
Test Description	**Results**
Moisture Content (%)	7.4
Permeability (ft / day)	3.7
Wet Density (lbs / ft^3)	112.6
Dry Density (lbs / ft^3)	102.4
Porosity (%)	45.0

UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Project No.: 0110.0800856.0000
Report No..: 733964.1
Date: November 18, 2008

SIEVE ANALYSIS / ADDITIONAL TESTING

Client: Pharos
Attn: Jeremy Jones
6996 Piazza Grande Avenue, Suite 305
Orlando, Florida 32835

Project: Chevron, Superfund Site, 3100 North Orange Blossom Trail, Orlando, Orange County, Florida

Location.: SB-110, Zone 3 at 1043 **Date Tested:** 11/14/08

Sample No.: 9 **Tested by:** Nancy Dorrow

Depth: 6-6.5'

SIEVE ANALYSIS	
Sieve No.	**% Passing**
No. 4	100
No. 10	100
No. 40	99.4
No. 60	96.9
No. 100	58.1
No. 200	11.8

Additional Testing	
Test Description	**Results**
Moisture Content (%)	33.5
Permeability (ft / day)	15.1
Wet Density (lbs / ft^3)	103.1
Dry Density (lbs / ft^3)	92.2
Porosity (%)	56.7